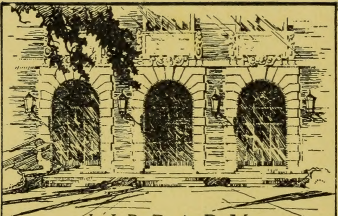

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UNIVERSITY
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REDLANDS
BULLETIN

Annual Catalog

UNIVERSITY OF ILLINOIS
~~JUL 31 1918~~
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Vol. VIII MARCH, 1918 No. 1

PUBLISHED QUARTERLY BY THE
UNIVERSITY OF REDLANDS

UNIVERSITY
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REDLANDS

Tenth Annual Announcement

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Calendar

1918

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.		Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
July	--	1	2	3	4	5	6	**Oct.**	--	--	1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30	31	--	--	--		27	28	29	30	31	--	--
Aug.	--	--	--	--	1	2	3	**Nov.**	--	--	--	--	--	1	2
	4	5	6	7	8	9	10		3	4	5	6	7	8	9
	11	12	13	14	15	16	17		10	11	12	13	14	15	16
	18	19	20	21	22	23	24		17	18	19	20	21	22	23
	25	26	27	28	29	30	31		24	25	26	27	28	29	30
Sep.	1	2	3	4	5	6	7	**Dec.**	1	2	3	4	5	6	7
	8	9	10	11	12	13	14		8	9	10	11	12	13	14
	15	16	17	18	19	20	21		15	16	17	18	19	20	21
	22	23	24	25	26	27	28		22	23	24	25	26	27	28
	29	30	--	--	--	--	--		29	30	31	--	--	--	--

1919

Jan.	--	--	--	1	2	3	4	**Apr.**	--	--	1	2	3	4	5
	5	6	7	8	9	10	11		6	7	8	9	10	11	12
	12	13	14	15	16	17	18		13	14	15	16	17	18	19
	19	20	21	22	23	24	25		20	21	22	23	24	25	26
	26	27	28	29	30	31	--		27	28	29	30	--	--	--
Feb.	--	--	--	--	--	--	1	**May**	--	--	--	--	1	2	3
	2	3	4	5	6	7	8		4	5	6	7	8	9	10
	9	10	11	12	13	14	15		11	12	13	14	15	16	17
	16	17	18	19	20	21	22		18	19	20	21	22	23	24
	23	24	25	26	27	28	--		25	26	27	28	29	30	31
Mar.	--	--	--	--	--	--	1	**June**	1	2	3	4	5	6	7
	2	3	4	5	6	7	8		8	9	10	11	12	13	14
	9	10	11	12	13	14	15		15	16	17	18	19	20	21
	16	17	18	19	20	21	22		22	23	24	25	26	27	28
	23	24	25	26	27	28	29		29	30	--	--	--	--	--
	30	31	--	--	--	--	--								

JAN 28 1919
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Contents

PAGE
Accrediting by U. of C. and Stanford 38
Admission—College of Liberal Arts 28
  College of Fine Arts 86
Advanced Standing 30
Art Department 90
Argumentation 56
Astronomy 68
Athletics 27
Biblical Studies 42
Biology 43
Board and Rooms 34
Board of Trustees 8
Botany 43
Buildings 22
Calendar 3
Campus 22
Chemisty 46
Christian Associations 25
College Calendar 6
Colors 27
Concerts and Recitals 91
Courses—College of Liberal Arts 42
  College of Fine Arts, Music 95
  Art 93
Degrees—Baccalaureate—College of Liberal Arts 39
  College of Fine Arts 85
Departments of Instruction (see Courses of Study)
Diplomas—College of Liberal Arts 39, 40
  College of Fine Arts—Music 88, 92
Dormitories 34
Economics 77
Education 71
Engineering 48
English 50
Events of the Past Year 16
Expenses—College of Liberal Arts 35
  College of Fine Arts 92
  Dormitory 36
Faculty 10
Fees (see Expenses)
French 56
General Requirements, etc 32
Geology 59
German 58

PAGE
Grading 33
Graduates, 1917 104
Graduation (Requirements for)—College of Liberal Arts 39
College of Fine Arts 87
Greek 59
Gymnasiums 24
Harmony 98
Historical 20
History 62
History of Art 94
History of Music 65
Latin 65
Library 37
Literary Societies 26
Location 21
Majors and Minors 41
Mathematics 68
Matriculation 31
Music (see College of Fine Arts)
Organizations 25
Philosophy 71
Physics 75
Physical Education 39
Piano 95
Political Science 76
Prizes 37
Publications 26
Public School Music 97
Public Speaking 56
Registration 31
Requirements for Graduation—College of Liberal Arts 39-41
College of Fine Arts 87
Rooms 34
Schedule of Recitations 80-83
Scholarships 33
Social Science 76
Sociology 76
Soloists 85
Spanish 79
Special Students 32
Standing Committees 15
Student Help 34
Students, Register of 105
Theory 98
Trustees 8
Tuition (see Expenses)
Violin 99
Voice 101

College Calendar

191~~7~~8

September 16th and 17th, Monday and Tuesday—Entrance examinations and registrations for First Semester.

Note—The Monday registration is especially intended for students of Redlands.

September 18th, Wednesday—First Semester begins with Assembly at 10:00 a. m.

November 28th, Thursday, to December 2d, Monday, at 1:00 p. m., Thanksgiving Recess.

December 20th, Wednesday—Christmas Vacation begins at 4:00 p. m.

191~~8~~9

January 6th, Monday—Christmas Vacation ends at 1:00 p. m.

January—Monday following meeting of Southern California Baptist convention, semi-annual meeting of Board of Trustees, 1:00 p. m.

January 27th, 28th, 29th and 30th, Monday, Tuesday, Wednesday and Thursday—Mid-year examinations.

January 31st, Friday—Second Semester begins at 7:45 a. m.

February 23d, Sunday—Day of Prayer for Colleges.

Mearch 28th, Friday— Spring Vacation begins at 4:00 p. m.

April 7th, Monday—Spring Vacation ends at 1:00 p. m.

June 10th, 11th, 12th and 13th, Tuesday, Wednesday, Thursday and Friday—Final examinations.

June 14th, Saturday—Anniversary of the College of Fine Arts, Department of Music, 8:00 p. m.

June 15th, Sunday—Baccalaureate Sermon, 11 a. m.
Service, 7:30 p. m.

June 16th, Monday evening—Annual Zanja Fiesta.

June 17th, Tuesday—Alumni meeting and banquet, 11:00 a. m.
Semi-annual meeting of the Board of Trustees, 10:30 a. m.
Class Day.

June 18th, Wednesday—Commencement, 10:30 a. m.
College Dinner.

Board of Trustees

MEMBERS OF THE BOARD

TERM EXPIRING 1919

A. T. Currier, Pomona.
J. Harvey Deere, Pomona.
J. Whitcomb Brougher, Los Angeles.
J. H. Strait, Redlands.
W. H. Fowler, Ontario.
W. F. Harper, Los Angeles.
Mrs. Martin Bekins, Los Angeles.
Harry L. Boardman, Riverside.
J. P. Haddock, San Diego.
J. W. Curtis, San Bernardino.

TERM EXPIRING 1920

G. S. Turrill, Redlands.
Arthur Gregory, Redlands.
W. F. Wood, Glendale.
Geo. D. Knights, Long Beach.
James A. Francis, Los Angeles.
F. C. Lovett, Tulare.
Daniel Smiley, Redlands.

TERM EXPIRING 1921

Mattison B. Jones, Los Angeles.
J. H. Merriam, Pasadena.
C. W. Brinstad, Berkeley.
H. L. Moody, San Diego.
L. A. Boadway, Pasadena.
Weymouth Crowell, Los Angeles.
Mrs. W. H. Jameson, Corona.
G. Rupert Johnson, Los Angeles.
Mrs. Mary P. Folkins, Redlands-Alumni Representative

OFFICERS OF THE BOARD

Mattison B. Jones, President - - Los Angeles
Merchants' National Bank Building

J. H. Merriam, Vice-President - - Pasadena
No. 680 E Street

J. W. Curtis, Secretary - - - San Bernardino

J. Margaret Swope, Assistant Treasurer, San Bernardino

Geo. P. Cortner, Business Manager - - Redlands

EXECUTIVE COMMITTEE

W. H. Fowler, Chairman.
Mattison B. Jones.
Geo. D. Knights.
J. H. Merriam.
J. W. Curtis.
L. A. Boadway.
J. H. Strait.

Faculty

VICTOR LEROY DUKE, A. M., LL. D., President.

A. B., Shurtleff College, 1897, A. M., 1903. University of Chicago Summer Sessions, 1898, 1899, 1900, 1901 and 1903.

LL. D., Shurtleff College, 1917.

University of Redlands, 1909—.

Residence, 155 E. Cypress Avenue.

A. HARVEY COLLINS, A. M., Registrar.

Professor of History.

A. B., Indiana University, 1890. University of California Summer School Sessions, 1903, 1906.
A. M., University of Southern California, 1912.
University of Redlands, 1909—.
Residence, 416 West Olive Avenue.

JAMES W. KYLE, A. M.

Professor of Ancient Languages.

A. B., Denison University, 1894. A. M., University of Chicago, 1900.
Student Royal Museum, Berlin, 1898. Member of American School of Classical Studies, Athens, Greece, 1898-99.
University of Redlands, 1909—.
Residence, 621 University Street.

S. GUY JONES, B. S.

Professor of Chemistry.

B. S., Denison University, 1903.
University of Redlands, 1909—.
Residence, 541 Fourth Street.

GEORGE ROBERTSON, A. B.

Professor of Biology and Geology.

A. B., McGill University, Montreal, 1881. Graduate Congregational College, Montreal, Canada, 1882.
University of Redlands, 1911—.
Residence, 256 Alvarado Street.

HERBERT E. WISE, A. M.

Professor of Philosophy and Education.

A. B., University of Manitoba, 1892. Graduate of Newton Theological Institution, 1897. A. M., University of Manitoba, 1915.
University of Redlands, 1910—.
Residence, 775 Linda Vista Ave.

EDITH ABIGAIL HILL, A. B.

Professor of Modern Languages.

A. B., Leland Stanford Junior University, 1903. Student at Sorbonne, Paris, 1903. Student University of Berlin, 1904. Student in Mexico, 1905. Student University of Madrid, 1909-10.
University of Redlands, 1910—.
Residence, 14 Clifton Avenue.

HERBERT EUGENE MARSH, B. S.

Professor of Physics and Engineering.

B. S., Michigan Agricultural College, 1908.
University of Redlands, 1912—
Residence, 618 East Fern Avenue.

EGBERT RAY NICHOLS, A. M.

Professor of English Literature.

Ph. B., Franklin College, 1907. A. M., Harvard University, 1909.
University of Redlands, 1913—.
Residence, 814 Campus Avenue.

HOWARD C. TILTON, A. M.

Professor of Political and Social Science.

A. B., Shurtleff College, 1895. A. M., Brown University, 1897.

University of Redlands, 1914—.

Residence, 614 East Fern Avenue.

MARY LOUISE TODD, A. B.

Associate Professor of English.

A. B. University of Colorado, 1910. Graduate Student University of Southern California, 1914.

University of Redlands, 1914—.

Residence, 109 Stillman Avenue.

*NATHAN CESNA GRIMES, A. M.

Professor of Mathematics.

A. B., University of Michigan. A. M., University of Wisconsin.

University of Redlands, 1917, 1918.

EMMA KIRTLAND WHITON, A. M.

Professor of Mathematics.

A. B., Colorado College, 1909. A. M., University of California, 1916.

Teaching Fellow University of California, 1916-17.

University of Redlands, 1918—.

Residence, 418 Division Street.

---

*Resigned January, 1918.

COLLEGE OF FINE ARTS

VICTOR LEROY DUKE, A. M., LL. D., President.

CHARLES EDWARD HUBACH, Dean of the College of Fine Arts.
Professor of Voice, Bel Canto and General Repertoire. Director of Choral Society.
Graduate New England Conservatory of Music.
Student of Sbriglia, Paris.
Student of Barracchia, Florence, Italy.
University of Redlands, 1914—.
Residence, Deming Hotel.

OSKAR BENJAMIN SEILING, Head of Violin Department.
Professor of Violin.
Director and First Violinist Brahms Quintette, Los Angeles.
University of Redlands, 1914—
Residence, Sierra Madre, California.

OLGA STEEB, Head of the Piano Department.
Professor of Piano.
Private student Los Angeles, California.
Special private student, London, England, and other European musical centers.
University of Redlands, 1915—.
Residence, University.

KATE WATKINS, Head of Art Department.
Instructor in Drawing, Painting, Modeling, Lecturer in History of Art.
Student of J. Carrol Beckwith (Art League) and Kenyon Cox of New York. Student of the Julian Studios and Henry Mosler, Paris, France.
University of Redlands, 1913—.
Residence, University.

FLORA CORDELIA COOK, Mus. Bac.
Instructor in Piano.
Instructor in Harmony and History of Music.
Graduate of Lake Erie College Conservatory, 1903.
Bachelor of Music, U. of R., 1914.
University of Redlands, 1913—.
Residence, Terracina Blvd.

FRANCES ANNETTE CARTLIDGE.
Instructor in the Dunning System of Music.
Instructor in Piano and Public School Music.
Graduate of Dunning System, Buffalo, N. Y., Student of Mrs. Jessie Gaynor, Mrs. Gertrude B. Parsons and others.
University of Redlands, 1915—.
Residence, 720 Cedar Avenue.

ASHEL CUNNINGHAM, L.L. B.
Director of Physical Education.
L.L. B., Indiana University, 1912.
University of Redlands, 1913—.
Residence, Campus Avenue

ALICE NICKERSON, A. B.
Instructor in Physical Education for Women.
Mills College. A. B., University of California.
University of California Summer Sessions, 1915, 1916.
University of Redlands, 1917—.
Residence, 610 Alvarado Street.

HOUSE MOTHERS

Mrs. Laura M. Redden - - - Bekins Hall
Graduate of Acadia Seminary, Nova Scotia. Vice-Principal Acadia Seminary, 1910-11.
University of Redlands, 1913—.

Mrs. Blanche A. Stauffer - - - Reavis Hall
University of Redlands, 1913—.

ELEANOR A. SYMMES, Librarian.
Librarian of the University of Redlands, 1914—.
Absent on leave.

ANNE REDDEN, Librarian.
University of Redlands, 1917—.
Residence, Bekins Hall.

STANDING COMMITTEES

1918-19.

Athletics—
S. Guy Jones, H. E. Marsh, Ashel Cunningham.

Discipline—
V. L. Duke, H. E Wise, H. C. Tilton.

Dormitories—
V. L. Duke, M. L. Todd, George Robertson.

Grounds—
J. W. Kyle, Geo. Robertson, Business Manager Geo. P. Cortner.

Library—
H. E. Wise, H. C. Tilton, E. R. Nichols and W. H. Fowler, from Board of Trustees.

Museum—
George Robertson.

Prizes—
J. W. Kyle, H. E. Marsh, M. L. Todd.

Publications—
A. H. Collins, V. L. Duke, E. R. Nichols.

Schedule—
S. G. Jones, A. H. Collins, E. A. Hill.

Student Activities—
E. A. Hill, A. H. Collins, H. E. Wise.

Christian Work—
V. L. Duke, H. C. Tilton, H. E. Wise.

Events of the Past Year

June 15th, Saturday—Anniversary of the College of Fine Arts, Department of Music, 8:00 p. m.

June 16th, Sunday—11:00 a. m., Baccalaureate Sermon by Rev. John Snape, Pastor First Baptist Church, Hollywood, Cal.

7:30 p. m., Address before the Christian Associations by Rev. Geo. C. Wright, Pastor First Baptist Church, Santa Barbara, Cal.

June 17th, Monday—7:30 to 10:00 p. m., Students' Annual Zanja Fiesta.

1:00 p. m., Semi-Annual meeting of the Board of Trustees.

June 18th, Tuesday—11:00 a. m.—Alumni meeting and banquet.

2:00 p. m.—Class Day exercises of the Class of 1917.

8:00 p. m.—Reception by President and Mrs. Duke.

June 19th, Wednesday—Commencement, 10:30 a. m.
Address by Rev. Charles Edward Locke, Pastor First M. E. Church, Los Angeles, Cal.
Conferring of Degrees by President Victor LeRoy Duke.

12:15 p. m.—Seventh Annual College Dinner.

During the present year, 1917-18, the University of Redlands has been favored with a number of assembly addresses by distinguished men and women as follows:

April 11, 1917—Rev. E. M. Hulitt, Pastor First Baptist Church, Whittier, California—"Challenge of The Great Commission."

April 18th, 1917—Rev. George Lord, Pastor First Baptist Church, Monrovia, California—"A Viper In a Bundle of Sticks."

May 8th, 1917—Hon. Sam. Knight, Class 1913, Assemblyman from Redlands District—"Our Legislature."

May 23rd, 1917—Rev. Chas. E. Mosher, Pastor First Baptist Church, Alhambra, California—"What Is Your Life?"

June 6th, 1917—President Jas. A. Blaisdell, Pomona College—"What Should Be the Attitude of the College Student In This World Crisis?"

September 24th, 1917—Rev. L. D. Van Arnam, Pastor First M. E. Church, representing the Ministerial Organization—"A Welcome to Redlands' Churches."

October 1st, 1917—Dr. G. G. Crozier, M. D., Missionary from Torsu, Assam—"The Call and the Opportunity in Assam."

Mr. and Mrs. C. E. Blanc, Class of 1916—"Out-Going Missionaries to Assam."

October 4th, 1917—Rev. Geo. H. Holt, Pastor First Baptist Church, Corona, California—"Influence of Our Lives."

October 10th, 1917—Joseph Cook, M. D., Medical Missionary to Persia—"Experiences of a Doctor in Persia."

October 31st, 1917—Professor Albert P. Meub, Reader and Impersonator, Pasadena, California.

November 14th, 1917—Rev. Geo. J. Geis, Missionary in Burmah among the Cochins—"Work of a Missionary."

November 21st, 1917—Rev. F. G. Davies, D. D., Pastor First Baptist Church, Santa Ana—"Opportunities of Today."

November 22nd, 1917—Rev. J. F. Watson, D. D., General Secretary Southern California Baptist Convention—"Live Ones vs. Dead Ones."

December 5th, 1917—Dr. Wm. H. Snyder, Principal of Hollywood High School—"Education for Utility vs. Education for Service."

December 12th, 1917—Rev. Milton Fish, Pastor First Baptist Church, San Bernardino, California—"Freedom."

December 12th, 1917—Rev. D. P. Ward, Bible School Worker, Upland, California—"Some Things Worth While."

January 21st, 1918—Dr. Wm. E. Chalmers, Educational Secretary American Baptist Publication Society—"Training the Will Through Action."

February 4, 1918—Miss Marguerita Moran, Director of the Bible Training School of the Telegu Mission, Telegu, India—"The Work of the Training School."

February 6th, 1918--Prof. F. H. Billings, Ph. D., Professor of Bacteriology, University of Kansas—"Some Little Known Vocations."

February 19th, 1918—Dr. J. H. Franklin, Boston, Mass., Foreign Secretary American Baptist Missionary Union—"Foreign Missionary Work and Its Relation to the Great World Struggle."

February 25th, 1918—Dr. F. M. Preble, Ludlow, Vermont, Trustee of Colby College, Newton Theological Seminary, and of Coburn Classical Institute—"Preparing for Greatness."

February 27th, 1918—Rev. Augustus H. Strong, D. D., forty years President of Rochester Theological Seminary—"Attention a Factor In Education."

March 6th, 1917—Rev. Herbert C. Ide, Pastor First Congregational Church, Redlands, California—"Experiences at and Impressions of Camp Kearny."

March 13th, 1918—Mrs. Coombs, official lecturer of the Red Star Animal Relief Society of the United States—"Value of Animals In Winning the War."

March 20th, 1918—Dr. O. P. Gifford, Brookline, Mass., —"Is Life Worth Living?"

March 21st, 1918—Mr. K. H. Field, Attorney and Member of Board of Trustees A. K. Smiley Public Library—"Library for Our Soldiers."

March 27th, 1918—Mrs. Theodora Brewitt, Principal of Library Training School, Los Angeles Public Library—"Library Work."

April 9th, 1918—Rev. John Snape, Pastor First Baptist Church, Hollywood—"What Can Be Seen When Our Eyes Are Opened."

April 24th, 1918—Dr. F. M. Preble, Ludlow, Vermont, Trustee of Colby College—"The Blend and the Brand."

April 29th, 1918—Dr. F. A. Agar, Secretary Layman's Missionary Commission, New York—"Doing Unusual Things in Unusual Times."

University of Redlands

HISTORICAL

On the seventh day of December, 1906, the Baptists of Southern California, in Convention assembled in Berean Hall, Los Angeles, resolved to found and foster a high grade Christian college. A committee of twenty-one representative men was appointed to select the location for the college, manage the campaign for a Founding Fund and organize the institution.

The canvass for a Founding Fund of $300,000 was begun the first of September, 1907, and so hearty was the response that at the Convention held in Los Angeles in January, 1909, the Committee was able to announce the assured success of the movement.

The location of the college at Redlands was due both to the acknowledged fitness of the city as a home for such an institution and the generous offer of a campus of forty acres and $100,000 toward the Founding Fund.

To the forty acres given by Redlands for a campus has since been added twenty-three acres, including the beautiful University Hill, now occupied by the Administration Building and the Fine Arts Building.

With the $300,000 Founding Fund and the beginning of the first building the work of actualizing the institution may be said to have commenced.

The University of Redlands was incorporated under that title in 1907.

On September 29th, 1909, less than three years from the time of the inception of the movement, the institution threw open its doors to the public.

The College of Liberal Arts was organized and continued thru the first semester of 1909-10 in the Bible School rooms of the First Baptist Church of Redlands.

In February, 1910, the ample Administration Building was occupied.

From the beginning a College of Fine Arts has been a prominent feature of the plans for the University. This work for the first year, 1909-10, was largely carried on at the private studios of the professors and instructors. From 1910 to 1914 the work of the Fine Arts College was housed in Bekins Hall. The present Fine Arts Building, which stands on University Hill and to the east of the Administration Building, was occupied in September of 1914.

LOCATION

Redlands, the home of the University, is a beautful city of 11,000 inhabitants, situated sixty-six miles east of Los Angeles, in the heart of the largest orange growing district in the world, and close to the eternal mountains, whose massive strength gives courage, whose grandeur gives inspiration, whose repose gives rest. The city is located at an altitude of about 1400 feet, which gives it as nearly an ideal climate as it is possible to find, sometimes touching the frost point in winter, warm in summer; but, even in the warmest summer months, always having cool and restful nights.

Flowers blossom all the year round and the finest fruits are always in season. The class of people who have made Redlands what it is, coming from all parts of the country, is thoroly cosmopolitan and is closely in touch with the latest thought and endeavor of the world. Redlands is a church-going city, and with this sentiment thus dominant there is no saloon within her borders. In short, Redlands is a city of high moral tone and culture, justly deserving the name that has been given to it, "The Athens of Southern California." Many trains a day, steam and trolley, connect Redlands with Los Angeles and other nearby towns, the trip to Los Angeles taking two and one-half hours, thru the orange groves and vineyards of the garden spot of the United States, Redlands can be reached directly via either the Southern Pacific or the Santa Fe railroads or the Pacific Electric. It is also reached by the Salt Lake Route thru San Bernardino and Pacific Electric to Redlands.

The location of this place for an institution of higher learning, such as the University of Redlands, presents unusual opportunities for an ideal home life to parents desiring to have their children live at home while pursuing a college course.

CAMPUS

In a beautiful valley under the shadow of the "Everlasting Hill," the campus of the University of Redlands surely has an inspiring setting. Its sixty-three acres, under the skill of a landscape architect, aided by a beneficent climate, has in a short time become a spot of rare beauty. With stately architecture to grace its greensward, winding drives, glowing flowers, and wrapt in the indefinable atmosphere which adds so much romance and charm to our Western land, the place itself will surely inspire with the highest ideals the sons and daughters who will throng its halls of learning.

THE BUILDINGS

ADMINISTRATION

The main structure of the whole University scheme, the Administration Building, was completed in 1910, It is massive and monumental in character, a pure example of classic architecture, of the mixed Ionic order. The exterior is faced with gray granite and with its massive columns and red tile roof harmonizes admirably with its majestic setting of mountain and valley.

The building contains the offices of the President, Registrar and Treasurer, and at present accommodates the recitation and laboratory work of the College of Liberal Arts, embracing some sixteen recitation rooms, chemical and physical laboratories, lecture rooms, library, society halls; locker rooms, etc. The entire equipment is of the highest order, especial attention being paid to the ventilation and sanitary requirements.

FINE ARTS BUILDING

To the east of the Administration Building and forming the second of the group of three buildings proposed for University Hill, stands the Fine Arts Building. Its handsome lines harmonize with those of the Administration Building, and the others on the campus.

The Vocal, Piano, Violin, and Art Studios, as well as the class rooms, practice rooms, and musical library, are in this structure, while the spacious hall provides room for the accommodation of audiences at the semi-monthly and other recitals.

The building was largely the gift of Mrs. Julia A. Libby of Santa Ana.

BEKINS HALL

Bekins Hall, the gift of Mr. and Mrs. Martin Bekins, of Los Angeles, was completed and occupied in October, 1910. The building is classic in architecture and absolutely fireproof in construction. It contains rooms for the accommodation of fifty-five young women, besides parlors, dining hall and kitchen, and a specially equipped laundry. Many of the rooms are connected with private baths. Ample verandas and a roof garden foster outdoor life.

REAVIS HALL

Reavis Hall is named in honor of the late Benjamin H. Reavis, of Orange, Cal., whose generous gifts to the

University have more than justified the naming of the young men's dormitory.

The Hall is operated by the University Co-Operative Club, a student organization. It is located on the campus at the foot of University Hill near the athletic field and the men's gymnasium. Accommodations and board superior in every respect to those obtainable elsewhere, may be secured here.

The Club elects its own officers and operates co-operatively upon an expense basis with a house-mother and general manager at the head. The cost per month is much less than that at which good board and room may be secured any where else in Redlands.

As the capacity of the dormitory is limited, a deposit of five dollars is required for the reservation of a room. This deposit will be deducted from the expenses of the first month.

Further information may be secured by addressing the Secretary-Treasurer of the University Co-Operative Club, Reavis Hall, Redlands, California, or the University.

MEN'S GYMNASIUM

At the northeast corner of the Athletic Field stands the first unit of the gymnasium for men, with showers, dressing rooms and lockers. Southwest of the gymnasium are the Athletic Field and Tennis Courts, and arrangements for all sorts of out-door sports and exercises.

WOMEN'S GYMNASIUM

Just south of the Fine Arts Building stands the gymnasium for women. The building contains dressing rooms, sanitary showers and a gymnasium floor space 32x60 feet. The building is provided with a complete equipment for calisthenics and light gymnastics as well as for basket ball, volley ball and indoor base ball.

ORGANIZATIONS

ASSOCIATED STUDENT BODY

The Associated Student Body is composed of all the students matriculated in the two colleges of the University. Its officers are chosen by the student body from thier own number. Regular meetings are held each week to deal with matters of general interest to all students.

PI KAPPA DELTA

The University of Redlands has a chapter of Pi Kappa Delta, a forensic honor society organized among colleges of the Middle West in January, 1913. All orators and debaters who represent the institution in intercollegiate contests are eligible to membership and are elected upon application. The organization confers an honorary key which is jewelled to show the achievement in forensics attained by the wearer.

CHRISTIAN ASSOCIATIONS

Branches of the College Departments of the Young Men's Christian Association and the Young Women's Christian Association are doing active and effective work. Each association holds a weekly prayer meeting. Representatives from the societies are sent to the Bible and General Conferences for Colleges. The good effect of these Christian organizations is very marked in the daily life of the student body. Every encouragement and assistance is given these organizations by the faculty.

COLLEGE GLEE CLUBS

The Men's Glee Club of the University in its second year of organization has grown in popularity. A successful trip was made thru portions of Southern California during the Spring vacation.

The Women's Glee Club of the University, organized this year, comprises some thirty splendid voices. With the Dean of the Department of Music the Club gave several successful entertainments thruout Southern California the second semester.

Le Poste d' Ecoute

The literary societies for women, formerly in existence, have been merged under the name Le Poste d' Ecoute, the listening posts from which information concerning the enemy is sent back thru the communicating trenches.

According to the name, the objects of this organization are to promote interest and alertness in all cultural lines and to promote literary, social and patriotic standards among the women of the University.

Membership is open to the women of the University who maintain a high standard of excellence in their work.

COLLEGE PUBLICATIONS

The University of Redlands publishes a quarterly bulletin, one of which is the annual catalog. The other three are devoted to special studies and reports of officers and other matters of importance.

Student Publications

The Campus, a weekly paper published by the Associated Student Body through an elected staff, is an exponent of the student life and activities of the University.

La Letra

La Letra, The University Annual, is published by a special staff chosen by the student body and is devoted to the features of the University life for the year.

The Annual comes from the press about June First of each year, and is eagerly awaited by all those connected with the University.

COLORS

The official colors of the University of Redlands are Maroon and Silver Gray.

ATHLETICS

The University of Redlands recognizes the value of athletics in the college curriculum. Athletics is the vitalizing force of "College Spirit," and hence of value to college students in general Athletics, when properly coached and controlled, is of great value to the participant, for not only is the body developed, the eye made keener and the judgment quickened, but, if allowed so to do, the broader and finer qualities of mind and of soul, even, find expression and receive impulses and strength. Therefore athletics occupies the usual important place in the schedule.

The athletic park is enclosed and contains a 220-yard straight-away and a circular four-lap track, both in excellent condition. Inside the circular track the football and baseball fields are laid out.

College of Liberal Arts

ADMISSIONS

Every student, unless he brings a certificate of proficiency from an accredited school, shall before entering any class in the collegiate department, be examined upon the following subjects required for entrance:

In the College of Liberal Arts the University of Redlands offers courses leading to the Bachelor of Arts and the Bachelor of Science degrees with the following:

FIXED ENTRANCE REQUIREMENTS

Leading to Bachelor of Arts

English	2 units
A Foreign Language	2 units
Mathematics, Algebra and Plane Geometry	2 units
History	1 unit
Natural Sciences (This must be a laboratory course)	1 unit
Additional (From some combination of above and may include drawing)	4 units
Electives	3 units
Total	15 units

Leading to Bachelor of Science

	English	2 units
	A Foreign Language	2 units
	Mathematics	3 units
	History	1 unit
(1)	Physics	1 unit
(1)	Chemistry	1 unit
(1)	Other Sciences	1 unit
	Additional from above, or may offer Drawing	1 unit
	Electives	3 units
	Total	15 units

NOTE:—The candidate must have chosen his work so as to present at least 4 units of work which is generally regarded as belonging to the 3rd and 4th years of the High School. Students wishing to major in Ancient Languages in the College must offer four entrance units in Latin.

(1.) A student presenting only two of these three units, but an extra unit in either Mathematics or Foreign Language, will be entered without condition, but must elect the equivalent science course in the College. This shall not reduce the total amount of work required in these subjects for graduation.

In the list of subjects enumerated above the term unit is employed to signify the amount of preparatory work done in a given subject during a school year.

ADMISSION BY CERTIFICATE

Graduates of approved high schools or academies will be given credit for any of the subjects listed below in which they are recommended. Blanks for such recommendation will be furnished on application to the University, and it is expected that all applicants for admission, without examination, will use them.

In the list of admission subjects enumerated below the term unit is understood to represent five recitations per week of forty-five minutes each, four recitations per week of sixty minutes each throughout one school year, or equivalent. A detailed description of the essential subjects may be found in the printed lists of the American College entrance requirements.

1.	English, Elementary	2
2.	English, Advanced (3rd yr.)	1
3.	English, Advanced (4th yr.)	1
4.	Algebra, Elementary	1
5.	Algebra, Intermediate	½
6.	Plane Geometry	1
7.	Solid Geometry	½
8.	Plane Trigonometry	½
9.	Ancient History	1
10.	Mediaeval and Modern His.	1
11.	English History	1
12.	History and Gov't of U. S.	1
13.	Economics	½, 1
14.	Latin, Elementary & Cæsar	2
15.	Cicero & Latin Composition	1
16.	Vergil & Latin Composition	1
17.	Greek, Elem. & Xenophon	1
18.	Homer and Greek Comp.	1
19.	German, Elementary	2
20.	German, Intermediate	1
21.	German, Advanced	1
22.	French, Elementary	2
23.	French, Intermediate	1
24.	French, Advanced	1
25.	Spanish	2
26.	Physics	1
27.	Chemistry	1
28.	Botany	1
29.	Zoology	1
30.	Physiology	1
31.	Physical Geography	1
32.	General Science	1
33.	Free-hand Drawing	½, 1
34.	Mechanical Drawing	½, 1
35.	Music	½, 1
36.	Vocational Subjects	1, 2, 3

Half units will be accepted only when presented in addition to a whole unit in the same subject or in closely allied subjects, such as economics and history, except in industrial arts, agriculture, music, etc., as indicated above.

One year of a foreign language will not be accepted until supplemented by an additional year of the same language in the University of Redlands.

ADVANCED STANDING

If a student upon entering the University can present more than sixteen units, he may apply for advanced standing on the excess of units above that number.

The granting of advanced standing, in any department, is dependent upon the recommendation of the head of that department, who also reserves the right to examine the applicant, in the subjects in which advanced credit is sought, before making any recommendation.

Credit without examinations for work done in other institutions will be granted only upon receipt of a satisfactory certificate mailed to the University of Redlands by the proper official of the institution in which the work was done.

A student from another institution of equal scholastic rank may be admitted to advanced standing in the University upon presentation to the committee having charge of credits satisfactory evidence of having completed the work claimed, together with a certificate of honorable dismissal.

Students failing to satisfy any of the above requirements for admission may be received on condition, but such condition must be removed before said students are admitted to the Junior Class.

MATRICULATION AND REGISTRATION

Each student desiring to register is required to present himself to the President, who will advise with him and direct him to the registration committee and the Registrar.

Students are urged to register on the designated registration days. Absences from classes are counted from the day on which instruction begins. The student, within one week after registration day or at once, in case of late registration, must obtain from the Treasurer a card of admission to classes. No registration is complete until fees due the institution are paid or arranged for. Any student wishing to discontinue a course or in any way change his registration will proceed as in the original registration.

Students enrolled for the first semester and registering for the second semester will be expected to register between Friday, January 3rd, and Saturday, January 25th. An extra fee of one dollar ($1.00) will be charged the student whose registration is not complete on or before January 25th.

GENERAL REQUIREMENTS AND REGULATIONS

Candidates for degrees will be required to recognize the sequence of courses in selecting their work, unless excused by the Faculty.

Persons not candidates for any degree may be admitted to the University as special students, provided they are of mature age and give the Faculty satisfactory evidence that they are properly qualified to do work creditably and with profit.

Special students may select their studies without reference to the sequence of courses, but otherwise are subject to the general regulations governing the student body. Such students may at any time become candidates for degrees by conforming to the regulation requirements.

No student who has registered for regular work can change his status to that of a special without permission of the Faculty.

A student withdrawing from the University before the work of any semester has been completed shall thereby forfeit all credits for that semester; but at the discretion of the instructor such student, upon returning to college, may resume a subject at the point dropped and carry it to completion.

No regular student is allowed to carry more than 18 hours or less than 12 hours, except by special action of the Faculty.

Those who represent the University in inter-collegiate activities, or in other capacities, or who are managers or editors of student publications or officers of the Associated Student Body shall be regular students and doing a passing grade of work in at least 12 hours.

Each student must take a final examination before receiving credit in any course, except that in the second semester a student ready to receive a degree shall not be required to take an examination in those courses in which his daily grade for that semester is 90 per cent or above.

SCHOLARSHIP GRADING

The following system of grading is used in the University of Redlands:

A denotes a good grade of work.
B " average work.
C " passing, but poor.
D " conditioned.
E " failed.

A condition in any course may be removed before the course is again offered in accordance with the requirements made by the teacher concerned. A fee of $2.00 is charged for each extra or special examination, except that if a student is forced to be absent from all the examinations of the semester, the fee for the entire number shall not exceed $5.00.

SCHOLARSHIPS—STUDENT AID

A number of scholarships have been endowed by friends of the University, the income derived from such funds being devoted to defraying the tuition fees in the College of Liberal Arts of the students to whom they are assigned. These scholarships are awarded to those students who are in need of aid in securing a college education. In the awarding of these scholarships, the grade of work which has been done and is being done by the student is taken into consideration. A student receiving such aid is expected to conduct himself in a way which is for the best interest of the institution. He may be asked to render some light service to the institution which will not interfere with his studies.

The University aids some students by work about the campus and in the halls and co-operates with students in securing work about the city. Students who are thus helped are expected to give value received and to co-operate in maintaining a good spirit in the University.

Inquiries regarding this matter should be addressed to the University of Redlands.

DORMITORIES, ROOM AND BOARD

In Bekins Hall for Women accommodation is provided for a number of students. A thoroly competent matron is in charge of the dormitory, giving assurance of adequate control. In the hall it is the purpose of the administration to approximate the home life as closely as possible.

Reavis Hall likewise provides for a number of the men.

Students are expected to room in the college dormitories unless there are good reasons for their doing otherwise.

Students are allowed to room only in places approved by the Faculty. To this end a list of approved places is kept in the college offices. This list should be consulted by a student before he engages a rooming place. Places are not approved unless a responsible householder is in charge. General boarding houses are not approved and it is desirable that not more than six students room and board in any one place off the Campus. Groups of students are not allowed to rent a house for living quarters.

Any student changing his living place is expected to consult with the office concerning such change.

For cost of rooms and board see Expenses.

EXPENSES

It is believed that the expenses at this institution are as low as is consistent with the high character of the work done. The following schedule will serve to indicate the principal items:

Tuition per semester, payable in advance:	
Colleges of Liberal Arts	$48.00
Matriculation Fee:	
College of Liberal Arts and Fine Arts	$5.00
Registration Fee per Semester:	
College of Liberal Arts and Fine Arts	$2.00
Laboratory Fees:	
Chemistry, for each course, per semester	$8.00
Biology, per semester	$1.00
Physics, for each course, per semester	$5.00

A deposit of five dollars ($5.00) is required in Chemistry to cover breakage. This deposit, less cost of breakage, is refunded at the end of the year.

No breakage deposit is required in Physics, but an account is kept of all breakages and a charge is made therefor.

Students carrying not more than five hours of work will be charged one-third of the regular tuition fee; those carrying from six to ten hours inclusive, will be charged two-thirds of the regular fee, and those carrying more than ten hours will pay the full fee.

Students preparing for the ministry and children of ministers and missionaries will be granted a discount of 50 per cent in tuition fees for regular work in the College of Liberal Arts.

Spcial attention is called to the fact that the charge for tuition includes gymnasium, library, graduation and all incidental fees other than the matriculation and registration fees, and those connected with laboratory work.

No student may attend classes for more than one week after the regular registration day without having made satisfactory arrangements with the treasurer concerning all monies due the University.

DORMITORY EXPENSES

The larger number of the dormitory rooms are arranged for two in a room, being furnished with two beds and in some cases having two closets.

The beds in Bekins Hall are single and provided with mattresses 6 feet 2 inches, by 3 feet, and pillows 23 by 30 inches. For dimensions of pillows and mattresses in Reavis Hall, address The House Mother.

Each student is expected to furnish bed covers, linen and towels.

Rooms and Board at Bekins Hall:

Two in a room, per month	$27 each
Two in room with bath adjoining, per month,	$30 each

When paid by the semester in advance a discount of 3 per cent is allowed. Of this sum $20 per month is reckoned for the board and the balance is room rental.

Expense in Reavis Hall:

For a statement of expense for living in Reavis Hall, see page 24.

The dormitory will be closed during the Christmas and the Spring vacations unless a number of students desire to remain, in which case those students paying the semester rate will be charged an additional fee for their accommodations during these periods.

Rooms in the dormitories may be reserved at any time for 1918-19 by a deposit of five dollars with the University. This deposit will be deducted from the charges of the first month. This deposit will not be refunded if reservation is cancelled after August 31st.

The necessary expenses, including room, board, tuition, books and laundry, will average about $350 or $375 for the year.

LIBRARY

The library of 7740 volumes and several thousand unbound magazines and pamphlets, contains especially well selected works on all subjects included in the curriculum. This number includes about 3000 volumes received as a permanent loan from California College, Oakland, Cal.

Many valuable books and sets have been given by generous friends of the University.

Moreover, through the courtesy of the A. K. Smiley Public Library of Redlands, with 31,500 volumes, the University Library is a depository, thruout the college year, for such books as the different departments may from time to time require.

A music library, largely a loan from the private library of Dean Hubach, is maintained in the Fine Arts building.

PRIZES

The following prizes have been offered to the students of the University for the year 1917-18 to be awarded on Commencement Day:

1. For the best original oration delivered by a regular student of the University of Redlands at the annual Oratorical Contest on the third Friday of January, a gold medal or a prize of $25 is offered by the President of the Board of Trustees of the University, Mr. Mattison B. Jones, of Los Angeles.

2. For the best extempore speech delivered by a regular student of the University at the annual Contest in Extempore Speaking on the first Friday in December, a prize of $25 is offered by Mr. W. H. Fowler, of Ontario,

3. For the best essay on the subject "Science and the World War," presented by any student in the Department of Biology and Geology, a prize of $5.00 is offered by Professor George Robertson of the University.

4. For the best criticism of a Greek author presented by a member of the Literature Class a prize of $5.00 is offered by Professor J. W. Kyle of the University.

ACCREDITING

The work of the University of Redlands will be accepted by the University of California or Leland Stanford, Jr., University for admission to Sophomore, Junior, Senior or Graduate standing.

Harvard University and Columbia University have accepted our graduates to graduate standing without condition, as candidates for the Master's Degree.

REQUIREMENTS FOR GRADUATION

No student shall be permitted to graduate from the College of Liberal Arts of the University who has not credit for at least 124 hours including two years of physical education and who has not taken at least one year of the regular work at the University.

The required work leading to the different degrees is as follows:

Bachelor of Science

(1)	English	6-9 hours
	Mathematics	12 hours
	History	6 hours
	Sociology or Economics	3 hours
	Ethics	3 hours
	Christian Evidences	3 hours
	Psychology	3 hours
	Modern Languages	12 hours
	Physics	8 hours
	Chemistry	8 hours
	Other Science	6 hours
	Physical Education	4 hours
	Total Required	74-77 hours
	Electives	50-47 hours
	Total	124 hours

BACHELOR OF ARTS

(1)	English	6-12 hours
	Mathematics	6 hours
(2)	History	6-10 hours
	Sociology or Economics	3 hours
	Ethics	3 hours
	Christian Evidences	3 hours
	Psychology	3 hours
	Science	8 hours
	Foreign Languages	6 hours
	Physical Education	4 hours
	Total Required	48-58 hours
	Electives	76-66 hours
	Total	124 hours

In addition to the above requirements for the Bachelor of Arts Degree, the candidate must satisfy the conditions for a major as defined below.

(1). Students who offer fewer than four entrance units in English will be required to take nine college hours in that subject for the B. S. degree and twelve for the A. B. degree.

(2.) Students who offer fewer than two entrance units in History will be required to take ten college hours in that subject.

At least thirty-six hours of the Junior and Senior years must be from courses classified as "Junior and Senior."

Every candidate for a degree is required to select a major and signify the same to the Registrar and the head of the department in which he selects his major. Such selection may well be postponed until the Sophomore year but not later than that time, without special permission.

As soon as a student has decided on a major he shall choose his minor in conference with the head of the department in which he has chosen his major.

A major shall consist of twenty-four hours in one department, from courses classified by that department as majors and at least twelve hours must be from courses classified as "Junior and Senior."

A minor shall consist of at least nine hours from courses which may be counted toward a major in any department.

Departments of Instruction

BIBLICAL STUDIES

Herbert E. Wise

Crawford Professor of English Bible and Cognate Studies

1. The Life of Christ. The historical situation; sources of the Synoptics; portraits of the gospels; religious development and characteristic traits of Jesus.
   Freshmen-Sophomore Course.
   Two hours per week, first semester.

II. The Social and Ethical Teachings of Jesus and Their Application to Modern Life.
   Freshmen-Sophomore Course.
   Two hours per week, second semester.

*III. The Apostolic Age. New Testament Times; expansion of Christianity; distinguishing features of the Pauline Epistles-Galatians, Corinthians and Romans. Text, lectures, maps and reports.
   Freshmen-Sophomore Course.
   Two hours per week, first semester.

*IV. Continuation of III.
   Epistles of Paul's imprisonment; Epistle to the Hebrews; New Testament Canon.
   Freshmen-Sophomore Course.
   Two hours per week, second semester.

* Omitted in 1918-19.

BIOLOGY

Geo. Robertson, Professor

Courses III, IV, V, VI, VII, and VIII will be accepted as majors.

1. and II. General Botany

The study will cover a general course in plant life, including lectures, recitations, laboratory and field work. The local flora is very rich in native and cultivated plants, suitable for study every month of the year. The work will be pursued along these lines (a) Morphological (especially the hystological phase), (b) Physiological, and (c) special Botany, a study of local flora, conditions of plant development, and a knowledge of the economic value of California plants.

Freshman-Sophomore course.

Three lecture hours and one laboratory period per week, both semesters.

III. and IV. General Zoology

A study of invertebrate animal life, the structure, development, classification and distribution. The study of insects will be specifically considered.

Sophomore-Junior course.

Especial attention is given to human physiology.

Three lecture hours and one laboratory period per week, both semesters.

*V. Dendrology

The course in Forest Botany will consist of lectures, assigned reading and papers and laboratory work on trees and chapparal, their morphology, classification, geographical distribution, physiology, economic values and their relation to silviculture and arboriculture.

Prerequisite courses Biology I and II.

Sophomore-Junior course.
Two lecture hours and one laboratory period per week, first semester.

*VI. ANGIOSPERMS

The course deals with Phænogamic Botany, their ontogeny and Phylogeny, their orders, morphology, physiology, habits of growth, geological history, geographical distribution and their economic values. Southern California types will be especially considered, and Palentological plant forms.
Prerequisite courses III and IV.
Sophomore-Junior course.
Two lecture hours and a laboratory period per week, second semester, with the addition of special courses of reading.

*VII. ADVANCED INVERTERBRATE ZOOLOGY

Lectures, readings, laboratory work dealing with local inverterbrate Zoology, their morphology, habits, distributions, life histories. Entomology will receive special attention.
Prerequisite courses III and IV.
Sophomore-Junior course.
Two lecture hours and one laboratory period per week, first semester.

*VIII. ADVANCED GENERAL VERTEBRATE ZOOLOGY

The course will embrace a study of vertebrate animal structure anatomy and physiology, development, habits, variation and distribution. Dissection of selected type specimens, and special courses of reading with assigned papers will be required. Attention will be given to hygiene.
Prerequisite course VII.
Sophomore-Junior course.
Two lecture hours and one laboratory period per week, second semester.

IX AND X. PLANT ANATOMY AND PHYSIOLOGY

The course will deal with Morphology of the plant cell, tissue and organs, also microscopic technique. The physiology of the cell and tissue of simple and complex plants and their ecology will be covered.
Prerequisites Biology I and II.
Sophomore-Junior course.
Three lecture hours, including two hours' laboratory work with both semesters.

XI AND XII. PHYSIOLOGY AND HYGIENE

The course embraces the study of animal tissues, Epithelial, muscle, connective, nervous and their functions. The physiology and hygiene of the tissues, organs of respiration, digestion, nutrition, reproduction and of the nervous system will receive special attention.
Prerequisites Biology I, II, III, IV.
Sophomore-Junior course.
Three hours per week, both semesters.

Note—Biology IX and X will alternate each year with Biology XI and XII. Biology IX and X will be given in 1918-19.

* Note—Biology V and VI will alternate each year with Biology VII and VIII. Biology VII and VIII will be given in 1918-19.

CHEMISTRY

S. Guy Jones, Professor

Courses III to XIV inclusive will be accepted as majors.

I-II. Elements of Chemistry

An introductory course intended for those who do not offer matriculation Chemistry.
Freshman-Sophomore course.
Two recitations and two laboratory periods per week, each semester.

III-IV. General Inorganic Chemistry and Qualitative Analysis

An advanced course in general and theoretical chemistry, accompanied by a laboratory course in qualitative analysis. Analysis for positive ions, first semester. Analysis for negative ions and determination of the composition of natural and commercial products, second semester.
Prerequisite, Matriculation Chemistry or Chemistry I-II.
Freshman-Sophomore course.
Two recitations and two laboratory periods per week, each semester.

V-VI. Quantitative Analysis

General methods of Gravimetric and Volumetric Analysis.
Prerequisite courses III and IV.
Sophomore-Junior-Senior course.
Three laboratory periods per week, each semester.

*VII-VIII. Organic Chemistry

A study of the compounds of Carbon. Laboratory work in the preparation of organic compounds and the study of their properties.

Prerequisite courses III and IV.
Junior-Senior course.
Two recitations and two laboratory periods per week, each semester.

IX-X. ADVANCED QUANTITATIVE CHEMISTRY

An advanced course in quantitative manipulations and determinations. The aim of the course is to obtain skill in quantitative manipulation and a knowledge of methods which will enable the student to quickly and easily become proficient in any of the several lines of quantitative analytical Chemistry.
Prerequisite, Chemistry V and VI.
Junior-Senior course.
Three laboratory periods per week, each semester.

XI OR XII. INORGANIC PREPARATIONS

Study of the accepted methods of preparing the principal inorganic compounds.
Prerequisite courses III and IV.
Sophomore-Junior-Senior course.
Three laboratory periods per week, each semester.

*XIII-XIV. PHYSICAL CHEMISTRY

A course in the fundamentals of Physical Chemistry. The study of the properties of gases, liquids, solids and solutions. Also rate of chemical change and chemical equilibrium.
Junior-Senior course.
Two recitation-lecture periods and two laboratory periods per week, each semester.

* Chemistry VII-VIII and XIII-XIV are given during alternate years, VII-VIII being given 1918-19.

ENGINEERING

Herbert E. Marsh, Professor

A complete technical course in engineering is not offered at present. The following subjects are for the benefit of those who desire to complete their preparation for this profession after having obtained a broad cultural basis for the same.

I AND II. MECHANICAL DRAWING

Use and care of drawing instruments, free-hand and mechanical lettering, exercises in projection and simple drawing. Drawing accurately to scale plans, elevations, and sections from student's own measurements and free-hand sketches of simple machine parts.
Prerequisite, Plane Geometry.
Two drawing periods per week, both semesters.
This course may not be counted toward a major.

III. TOPOGRAPHICAL DRAWING

This course is supplementary to Engineering VI, and consists of a study of the forms and practice in the execution of the conventional alphabets used in lettering topographical maps and the individual conventional signs.
Prerequisite, Mechanical Drawing.
This course may not be counted toward a major.
Sophomore course.
One two-hour drawing period per week, first semester.

V AND VI. SURVEYING

The use, care and adjustment of the Surveyor's instruments. Field work; chain and tape surveying, transit, surveys, leveling, curves, etc.

Work of second semester, applied particularly to topographical surveying and mapping.
Sophomore course.

Prerequisite, Mathematics II.

Major course.

One recitation and two field (or drawing) periods per week, both semesters.

VII. Descriptive Geometry

A study of the principles which underlie orthographic projection, keeping in mind the importance of the ability to analyse a problem into its component parts and to reason from a given set of conditions to a required set of conclusions.

Major course.
Prerequisite, Engineering I and II.
Freshmen-Sophomore course.
Three drawing periods per week, first semester.

VIII. Descriptive Geometry

Continuation of V., including single and double curved surfaces, shades and shadows, and the elements of perspective and isometric projection.

Prerequisite, Engineering VII.
Three drawing periods per week, second semester.

IX. Applied Mechanics

A study of the laws of statics and dynamics and their application to the various branches of engineering.

Major course.
Prerequisite Physics III and Mathematics VII and VIII.
Junior-Senior course.
Four recitations per week, first semester.

X. GRAPHIC STATISTICS

A study of methods of representing forces graphically and the application of the same in the determination of stresses in structures.
Major course.
Prerequisite, Physics III, Engineering IX.
Junior-Senior course.
Recitation two hours and one drawing period per week, second semester.

XI. MECHANICS OF MATERIALS

A study of mechanics of materials including elastic and ultimate strength, and elastic ultimate determations, cases of simple stress, theory of beams, columns, and shafts; also a study of the principles of reinforced concrete and their application in various structures.
Major course.
Prerequisite, Engineering VIII.
Senior course.
Four recitations per week, second semester.

ENGLISH

Egbert Ray Nichols, Professor

Mary Louise Todd, Associate Professor

The aim of the English department is three-fold: (1) to train the students in the art of self-expression or English Composition, written and oral; (2) to give the student definite knowledge of the greater writers of English literature; and (3) to enable the student to appreciate and estimate in a measure by the higher standards of criticism the value and wealth of English literature.

The work of the department has been grouped under three heads. This division of the department is the logical and natural one of (A) Courses in Composition, (B) Courses in English Literature, and (C) Courses in Public Speaking. The courses in Divisions A and C are given by Mr. Nichols. Mr. Nichols and Miss Todd instruct in the courses in Division B.

From six to twelve units of English are required of A. B., and nine of B. S. students, the first six of which must be courses I. and II., which are prerequisites to all others except VII., VIII., XXV., XXVI., XXXI., XXXII., XXXIII., and XXXIV.

Twenty- four hours in addition to the hours in courses I., II., VII., and VIII are required of students majoring in English.

All courses in Composition and Literature may be counted toward a major in English unless otherwise designated. Only four hours of Public Speaking may be counted toward the English major. Courses VII, VIII, and XII are required of all English majors.

Students expecting to major in English should present a program of study to the head of the department before the beginning of the Junior year.

A.—COURSES IN COMPOSITION

I. AND II. RHETORIC AND COMPOSITION

A study of composition, oral and written, with regular practice in writing and speaking.
Freshmen course. May not be counted for major.
Three hours a week, both semesters.

III. AND IV. ADVANCED COMPOSITION AND JOURNALISM

A course in composition designed for those who wish to continue writing work beyond the Freshmen year. A regular schedule of writing is followed. Longer themes are required and more attention is

given to criticism than in English I. and II. English III. and IV. may be taken two years with full credit for each year.
Sophomore-Junior course.
Three hours a week, both semesters.

B—COURSES IN ENGLISH LITERATURE

VII. AND VIII. HISTORY OF ENGLISH LITERATURE
The development of English Literature from Beowulf to Wordsworth.
Required of students majoring in English. Either semester elective.
Freshman-Sophomore course.
Three hours per week, both semesters. Miss Todd.

IX. SHAKESPEARE
(a) An intensive study of three plays of Shakespeare, including Hamlet or Othello.
(b) A reading course in Shakespeare's plays up to the year 1600. A chronological order is followed. Collateral reading on the life of Shakespeare and his time.
Sophomore-Junior course.
Three hours, first semester. Mr. Nichols.

X. SHAKESPEARE
(a) As in English IX.
(b) A reading course in Shakespeare's plays subsequent to the year 1600. A chronological order is followed. Thesis required.
Three hours, second semester. Mr. Nichols.

XII. CHAUCER
A survey of the life and writings of Geoffrey Chaucer with special attention to the Canterbury Tales.
Junior-Senior course. Required of English majors.
Two hours a week, second semester. Mr. Nichols.

!XIII. Eighteenth Century Poetry

A study of representative poems of the classical and early romantic ages, including works of Pope, Gray, Collins, Blake, and Burns.

Junior-Senior course.
Three hours, first semester. Miss Todd.

!XIV. Nineteenth Century Poetry

The reading of selected poems from major poets, including Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson and Browning.

Junior-Senior course.
Three hours, second semester. Miss Todd.

*XV. English Prose of the Eighteenth Century

The reading of prose selected from the works of Defoe, Swift, Addison, Steele, Johnson, Goldsmith, and Burke.

Junior-Senior course.
Three hours, first semester. Miss Todd.

*XVI. Nineteenth Century Prose

A study of selected masterpieces with special emphasis upon the works of Lamb, DeQuincey, Macaulay, Carlyle, Arnold, and Stevenson.
Junior-Senior course.
Three hours, second semester. Miss Todd.

!XVII. Prose Fiction

A study of the rise, development, and technique of the Modern Short Story with extensive outside reading in English, Continental, and American stories. Seminar course; oral reports, lecture and thesis required.
Junior-Senior course.
Three hours, first semester. Mr. Nichols.

!XVIII. PROSE FICTION

A study of the history and technique of the novel with outside reading in the 19th century authors. Seminar course; oral reports, lecture and thesis required.
Junior-Senior course.
Three hours, second semester. Mr. Nichols or Miss Todd.

*XIX. TENNYSON

A study of the life and writings of Alfred, Lord Tennyson. Thesis required.
Junior-Senior course.
Three hours, first semester. Mr. Nichols.

*XX. BROWNING

A study of the life and writings of Robert Browning. Thesis required.
Junior-Senior course.
Three hours, second semester. Mr. Nichols.

*XXI. WORDSWORTH

A study of Wordsworth's poems, including a consideration of his poetic theory and practice.
Junior-Senior course.
Two hours, first semester. Miss Todd.

*XXII. MILTON

A study of the life and writings of Milton, with special emphasis upon Paradise Lost.
Junior-Senior course.
Two hours, second semester. Miss Todd.

*XXIII AND XXIV. HISTORY OF DRAMA

A study of the rise and development of English drama, its relations to ancient and continental drama, of stage conditions from mediaeval days to the present, including outside reading in miracle,

morality and mystery plays, interludes, Elizabethan, Restoration, 18th Century and Victorian Drama. Thesis required.
Junior-Senior course.
Three hours, both semesters. Mr. Nichols.

!XXV. MODERN DRAMA

A survey course in Modern Continental Drama with outside reading and reports, including Ibsen, Bjornson, Strindberg, Maeterlinck, Rostand, Brieux, Hauptman, Suderman, Schnitzler, Echegaray, d'Annunzio, and many others.
Junior-Senior course.
Three hours, first semester. Mr. Nichols.

!XXVI. MODERN DRAMA

A survey course in Modern English, Irish, and American Drama with outside reading and reports and thesis, including Pinero, Jones, Galsworthy, Bennett, Barker, Synge, Yeats, Gregory, Howard, Thomas, Mackaye, and many others.
Junior-Senior course.
Three hours, second semester. Mr. Nichols.

!XXVII. 19TH CENTURY AMERICAN LITERATURE

A survey course in the major poets and prose writers of America with a study of representative works. Elective.
Freshman-Sophomore course.
Three hours per week, first semester. Miss Todd.

!XXVIII. INTRODUCTION TO POETRY

A study of the principles of versification with exercises in the analysis and interpretation of various masterpieces. Elective.
Two hours per week, second semester. Miss Todd.

C.—COURSES IN PUBLIC SPEAKING

(Four hours only may be counted toward an English Major from courses in Division C.)

XXXI AND XXXII. ARGUMENTATION AND DEBATE

A study of the principles of debating, with exercises in brief drawing, writing speeches, and class debates.

Elective course. Should be taken by those desiring to enter Intercollegiate Debates.

Two hours a week, two semesters.

XXXIII AND XXXIV. ORATORY AND PUBLIC SPEAKING

A course in the principles and technique of the oration, with special attention to the college oration. Also practice in speaking—extempore and committed work—i. e., elementary training in expression. Elective course.

Two hours, both semesters.

!Given in 1918-19 and alternate years.
*Given in 1919-20 and alternate years.

FRENCH

Edith A. Hill, Professor

All courses except French I and II may be taken as major courses.

I. AND II. FIRST YEAR FRENCH

Special attention to pronunciation, writing and reading. Exercises in grammar. Grammar and texts suitable to the grade of work required, will be used.

Four hours per week, both semesters.

III. AND IV. SECOND YEAR FRENCH

Rapid review of grammar. Considerable opportunity is given for speaking the language, as but little English is used in the class room. Plays, novels and short stories of some of the greatest modern writers will be studied during the year.
Three hours per week, both semesters.

V. AND VI. CONVERSATION COURSE

Facts of daily life discussed. Designed to train students to speak and write the language with some facility.
Prerequisite I-II.
Two hours per week, both semesters.

*VII. AND VIII. FRENCH LITERATURE OF THE 19TH CENTURY

A lecture and reading course. Conducted entirely in French. Chateaubriand, de Vigny, Hugo, Balzac and others will be studied.
Prerequisite I-IV.
Three hours per week, both semesters.

*IX. AND X. FRENCH 17TH CENTURY POETRY AND PROSE

Lecture course and reading. The principal authors of the classical period, Corneille, Moliere, Racine, La Fontaine, Le Sage, Boileu, etc., will be studied.
Prerequisite I-IV.
Three hours per week, both semesters.

* VII.-VIII., IX.-X. given in alternate years.
IX.-X. given 1918-1919.

GERMAN

Edith A. Hill, Professor
Mary Louise Todd

All courses except German I. and 11. may be taken as major courses.

I. AND II. FIRST YEAR GERMAN

Systematic training in simple conversation, narration and the elements of German grammar. Texts suitable for the work of the first year will be read. Four hours per week, both semesters. Miss Todd.

III. AND IV. SECOND YEAR GERMAN

Reading of Lessing, Goethe, and Schiller.
Three hours per week, both semesters. Miss Todd.

V. AND VI. COMPOSITION AND CONVERSATION COURSE

A course in conversation, composition and sight reading.
Two hours per week, both semesters. Miss Todd.

*VII. AND VIII. THIRD YEAR GERMAN

The German Novel. Frytag's Soll und Haben, Sudermann's Frau Sorge, and others.
Reading and discussion.
Prerequisite I-IV.
Three hours per week, both semesters.

*IX. AND X. GERMAN LITERATURE

General survey of German Literature from its beginning to the 20th Century.
Prerequisite I-IV.
Three hours per week, both semesters.

*VII. and VIII., IX. and X. given in alternate years. VII. and VIII. given in 1918-19.

GEOLOGY

Geo. Robertson, Professor

I General Geology

Lectures, recitations, laboratory and field work. The study will include the salient and economic features of the science, giving a systematic and comprehensive knowledge of the most important teachings of Geology. The course will cover (a) Dynamical, (b) Structural, and (c) Historical Geology. Attention will be given to the Petrology and Crystalography of the common rocks and minerals.

Prerequisite, Biology I.-IV. Major.

Junior-Senior course.

Two hours and one laboratory period of two hours per week, first semester.

GREEK

James W. Kyle, Professor

Courses V., VI., VII., VIII., IX. and X., XIII. and XIV. may be counted for a major in Greek.

I. and II. Elementary Greek

Allen's First Year of Greek. Anabasis of Xenophon. Book I. Easy composition based on the Anabasis.
Freshman-Sophomore course.
Four hours per week, both semesters.

III. and IV. Xenophon: Anabasis

Books II.-IV. Composition continued. Homer: Iliad, Book I. Metrical reading.
Freshman-Sophomore course.
Four hours per week, both semesters.

V. LYSIAS: SELECTED ORATIONS

Exercises in recomposition of the text. Analysis of style of Lysias. Lectures on the Greek orators.

Freshman-Sophomore course.
Three hours per week, first semester.

VI. HOMER: ILIAD, SELECTIONS

Study of forms from text and from Sterrett's Dialect of Homer. Metrical reading of the Greek. Lectures on the Homeric Poems as literature.

Freshman-Sophomore course.
Three hours per week, second semester.

VII. LUCIAN: SELECTED DIALOGUES

Exercises in recomposition. Required reading of other dialogues in translation. Lectures on the Greek rhetoricians.

Sophomore-Junior course.
Three hours per week, first semester.

VIII. PLATO: APOLOGY, CRITO AND PART OF THE PHAEDO

Discussion of the life and teachings of Socrates. Reading and reviews of the Gorgias, Symposium and Republic in Jowett's translation.

Sophomore-Junior course.
Three hours per week, second semester.

IX. EURIPIDES: IPHIGENIA IN TAURIS; ARISTOPHANES; CLOUDS

Discussion of the plot and characters. Lectures on the Greek theater. Study of the various metres and exercises in metrical reading.

Junior-Senior course.
Three hours per week, first semester.

X. DEMOSTHENES: ORATION ON THE CROWN

Analysis of the styles of Demosthenes. Supplemented by reading from Dionysius and select passages from Hyperides, Isaeus, Aeschines and Isocrates.

Junior-Senior course.

Three hours per week, second semester.

XI. AND XII. GREEK LITERATURE IN ENGLISH

Lectures on style, with class work in Fowler's History of Ancient Greek Literature. Required reading of three Greek authors per semester in the best translations, with critical review of each. The power to criticise independently and appreciate reasonably a work of literary art is sought in this course as well as some direct and personal acquaintance with the literature of Greece.

Elective course.

Three hours per week, both semesters.

XIII. AND XIV. MODERN GREEK

A Practical Method by Rangabe will be used as a guide. Part of each hour will be given to conversation in Modern Greek. A magazine published at Athens will be taken by each member of the class. Short stories by present-day writers will be read.

Junior-Senior course.

Three hours per week, both semesters.

HISTORY

A. Harvey Collins, Professor

CoursesV., VI., VII., VIII., IX., X., XI., XII., XIII., XIV. and XV. will be accepted as major courses.

Note—The six hours of history required for graduation from any department must be History III. and IV., or IV. and V.

I. AND II. ENGLISH HISTORY

This course is planned so as to cover the principal features of English History to the present time. Special attention will be paid to the constitutional phases.
Freshman course.
Three hours per week, both semesters.

III AND IV. MEDIAEVAL AND MODERN EUROPE EUROPE

A survey of the leading events in European History from about 476 to 1815 A. D., with special reference to the development of the great institutions both of Church and State. Text, lectures, collateral readings, preparation of maps and papers.
Sophomore course.
Three hours per week, both semesters.

V. NINETEENTH CENTURY EUROPE

Beginning with the general peace secured by the Congress of Vienna this course deals with the new political, social and international problems that characterize the nineteenth and the beginning of the twentieth centuries.
Prerequisite History IV. or I. and II.
Sophomore-Junior-Senior course.
Three hours per week, first semester.

VI. INTERNATIONAL RELATIONS

This course is designed to familiarize the student with the more important diplomatic questions that have presented themselves to our own statesmen. Special attention will be given to American Diplomacy.
Junior-Senior course.
Three hours per week, second semester.

VII. AND VIII. HISTORY OF THE UNITED STATES

Designed to show the growth of the American National Government by a study of the political, social and institutional development of the United States 1783-1918. Special emphasis will be laid on the causes of the Civil War, Reconstruction, and the institutional and political development since 1875. Lectures, reports, investigations and Comparisons.
Junior-Senior course.
Three hours per week, both semesters.

IX. AMERICAN COLONIAL HISTORY

A study of early American history to 1783. Lectures on the discovery, exploration, founding and development of the English Colonies. An intensive study of the causes and results of the American Revolution. Lectures, text, papers, maps.
Elective course.
Two hours per week, first semester.

X. AMERICAN EXPANSION

Expansion of the American people, along territorial, social and industrial lines. Text and lectures with much collateral reading and preparation of papers and maps.
Elective course.
Two hours per week, second semester.

XI. AND XII. HISTORY OF THE PACIFIC SLOPE

A special lecture course from syllabus together with investigations and reports.
Junior-Senior course.
One or two hours per week, both semesters.

XIII. THE REFORMATION

A detail study of the Protestant Reformation. An attempt will be made to discover the causes leading to the movement and the immediate and ultimate results, as well as to trace the current of events.
Prerequisite, History I. and II., or III. and IV.
Elective course.
Three hours per week, first semester.

XIV. HISTORY OF LATIN AMERICA

This course deals with the colonial expansion of Spain and Portugal in America and with the political, institutional and industrial development of Latin America. Special attention will be given to the inter-relationship of two Americas.
Junior-Senior course.
Three hours per week, second semester.

XV. HISTORY SEMINAR

A Seminar Study of some selected topic or movement. For 1918-19 the topic will be—"Commercial Readjustment After the War."
Junior-Senior course.
One hour per week, either first or second semester.

XVI. CURRENT HISTORY

A discussion of the important topics of the day, using such periodicals as the Independent, Digest, Outlook, et. al.
Elective course.
One hour per week, both semesters.

HISTORY OF MUSIC

Flora C. Cook, Instructor

Illustrated Lecture Course

I. AND II. HISTORY OF MUSIC

Ancient Music. Mediaeval Music. Music of the Sixteenth Century, of the Seventeenth Century, of the Eighteenth Century and the Classical School, and of the Nineteenth Century and the Romantic School. Later Modern Schools. Text book: Fillmore's History of Music. The text is supplemented by collateral readings.
Required of Sophomores for Degree of Mus. Bac.
Two hours per week, both semesters.

LATIN

James W. Kyle, Professor

Courses VII., VIII. and XI. to XVI., inclusive, may be counted for a major in Latin.

I. AND II. CICERO: ORATIONS AND LETTERS
Composition based on the text. Much reading in Latin to acquire expression. Memorizing of select passages.
Three hours per week, both semesters.

III. AND IV. VERGIL: AENEID, BOOKS I.-VI.
Metrical reading of the whole text. Discussion of syntax and figures of Vergil. Reading and reports from Sellar's "Vergil." Memorizing of select pasages.
Three hours per week, both semesters.
The above courses are intended for students who have entered with only two years of Latin.

V. CICERO: DE SENECTUTE AND DE AMICITIA

Review of forms and syntax. Discussions of the life and thought of Cicero and the sources of his philosophy.

Freshman-Sophomore course.
Three hours per week, both semesters.

VI. HORACE: SELECTIONS FROM ODES, SATIRES AND EPISTLES

Will be read metrically to secure ease and fluency in the Latin. Parallel passages from Greek and English poets. Discussion of the spirit and art of Horace.

Freshman-Sophomore course.
Three hours per week, second semester.

VII. LIVY: SELECTIONS FROM BOOKS I.-X.

Lectures on the history of Rome. Discussion of the style and rhetorical methods of Livy.

Freshman-Sophomore course.
Three hours per week, first semester.

VIII. TACITUS: HISTORIES, BOOKS I. AND II.

Systematic study of the style of Tacitus. Comparison with Livy and Thucydides. Lectures on the life and times of Tacitus.

Sophomore-Junior course.
Three hours per week, second semester.

IX. LATIN COMPOSITION

Illustrating the syntax and diction of several Latin authors. Designed especially for those who are preparing to teach Latin.

Freshman-Sophomore course.
Two hours per week, first semester.

X. LATIN COMPOSITION

A continuation of Course IX.
Two hours per week, second semester.

XI. PLAUTUS: CAPTIVI, TRINUMMUS AND RUDENS

Metrical reading. Lectures on Latin Comedy and the Greek Theatre.
Junior-Senior course.
Three hours per week, first semester.

XII. LUCRETIUS; CATULLUS; TIBULLUS; SELECTIONS

Metrical reading, lectures and critical essays on the Latin poets.
Junior-Senior course.
Three hours per week, second semester.

XIII. SENECA: SELECTIONS FROM ESSAYS AND LETTERS

Discussion of philosophy and ethics at Rome in the early Empire. The style of Seneca compared with Cicero and with Tacitus.
Junior-Senior course.
Three hours per week, first semester.

*XIV. QUINTILIAN: INSTITUTIONS, BOOKS X. AND XII.

Discussion of literary criticism among the Romans, and a rapid survey of the field of Latin literature.
Junior-Senior course.
Three hours per week, second semester.

*XV. CICERO—THE TUSCULAN DISPUTATIONS

With selections from Lucretius. A study of the various schools of Greek philosophy and their influence on the thought and feeling of Rome in the latter days of the Republic.
Junior-Senior course.
Three hours per week, first semester.

*XVI. Petronius and Martial

Selections from the Cena Trimalchionis and from the Epigrams of Martial.
Discussion of the social life and customs of the Romans, with special assignments and reports.
Junior-Senior course.
Three hours per week, second semester.

* Courses XIII. and XIV. are offered for 1918-19 in alteration with Courses XV. and XVI. for 1919-20.

MATHEMATICS AND ASTRONOMY

Emma Kirtland Whiton, Professor

Courses I., II., III., V., and VI. may not be counted toward a major in Mathematics and not more than one of the courses IV., VII., and VIII. may be so counted.

I. Algebra

This course is substantially equivalent to intermediate Algebra, frequently offered for matriculation. It should be taken by all Freshmen who do not offer this course for entrance.
Freshman course.
Three hours per week, first semester.

II. Trigonometry

Analytic Trigonometry, the proof and applications of the fundamental relations among the functions of angles. Practical Trigonometry, the solution of the plane triangle, measurements of heights and distances, sufficient of Spherical Trigonometry to determine the spherical triangle.
Prerequisite, Mathematics I.
Freshman course.
Three hours per week, second semester.

III. SOLID GEOMETRY

The fundamental propositions of Solid and Spherical Geometry with many original exercises applied especially to the mensuration of solids.

Freshman course.
Three hours per week, first semester.

IV. COLLEGE ALGEBRA

Rapid review of the Theory of Quadratic Equations, Permutations and Combinations, Series, Logarithms, Determinants and elementary Theory of Equations.
Prerequisite, Mathematics I. and II.
Freshman-Sophomore course.
Three hours per week, second semester.

V. AND VI. DESCRIPTIVE AND GENERAL ASTRONOMY

A study of the heavenly bodies, their constitution, laws of motion, physical properties and the processes by which man discovers these facts.
Prerequisite, Mathematics I. and II.
Elective course.
Three hours per week, both semesters.

VII. ELEMENTS OF ANALYTIC GEOMETRY

A study of the point, the line and the circle, with some of the more important and elementary theorems on the conic sections.
Prerequisite, Mathematics I. and II.
Freshman-Sophomore course.
Three hours per week, first semester.

*VIII. ELEMENTARY PROJECTIVE GEOMETRY

Fundamental concepts; anharmonic ratio; projective pencils and ranges. Designed especially for those who purpose to teach mathematics.

Prerequisite, Mathematics I. and II.
Freshman-Sophomore course.
Two hours per week, second semester.

IX. AND X. DIFFERENTIAL AND INTEGRAL CALCULUS

Fundamental formulae and processes of differentiation with an insight into the powerful factor which this subject is in modern scientific research, and a study of the processes of integration and their application to physical and mechanical problems.
Prerequisite Mathematics I., II., VII.
Sophomore-Junior-Senior course.
Three hours per week, both semesters.

XI. AND XII. ADVANCED ANALYTICAL GEOMETRY

A more detailed study of the properties of the conic section; some insight into the study and of higher plane curves, including introduction to modern methods in analytic geometry.
Prerequisite, Mathematics I., II., IV., VII., IX., X.
Junior-Senior course.
Three hours per week, both semesters.

XIII. THEORY OF EQUATIONS

Equations of higher degrees, symmetric functions of roots, determinants of higher orders.
Prerequisite, Mathematics I., II., IV., VII., IX.
Junior-Senior course.
Three hours per week, first semester.

XIV. ANALYTIC GEOMETRY OF THREE DIMENSIONS

Analytic study of the plane and straight line in space, surfaces of the second degree, introduction to theory of surfaces in general.
Prequisite, Mathematics I.-IV., VII., IX.
Junior-Senior course.
Three hours per week, second semester.

*XV. Differential Equations

Principles involved in the solution of such equations and the applications of this branch of mathematics to mechanics.

Prerequisite, Mathematics I., II., IV., VII., IX., X.

Junior-Senior course.

Three hours per week, first semester.

XVI. Advanced Integral Calculus

Special attention will be given to the definite integral and to elliptic integrals.

Prerequisite, Mathematics I., II., IV., VII., IX., X.

Junior-Senior course.

Two hours per week, second semester.

*Courses VIII., XI., XII., and XV. will not be given during the year 1918-19.

PHILOSOPHY AND EDUCATION

Herbert E. Wise, Professor

For the student who desires to major in Philosophy, the course is designed to arouse an eager interest in the great problems of the universe and human experience; to stimulate accurate reflection thereon, and to elicit personal judgment, such as will adequately meet the requirements of the complex nature of man.

Courses I., II., V., VI., and VII. are required of students majoring in Philosophy. The additional six hours may be chosen from IV. and VIII. Courses IV. to X. will be accepted as majors.

I. LOGIC

Historic stages in the development of logic; principles of deduction and induction; detection of fallacies; training in discriminative and consecutive thinking.

Sophomore-Junior-Senior course.

Three hours per week, first semester.

II. INTRODUCTION TO PHILOSOPHY

This course affords a survey of the field of philosophic enquiry, both in its historical and interpretive aspects.

Sophomore-Junior-Senior course.

Three hours per week, second semester.

III. PSYCHOLOGY

An introduction to the field of Psychology. The elements and functions of conscious life, and the affective, discursive and volitional processes are studied in their relation to practical life.
Biology III. is most desirable as preparation for this course.

Junior-Senior course.

Three hours per week, first semester.

IV. APPLIED PSYCHOLOGY

Physiological psychology; psychic element in literature; suggestion and mental healing; forensic, social, and religious psychology.

Text, lectures and reports.

Prerequisite III.

Junior-Senior course.

Three hours per week, second semester.

V. HISTORY OF PHILOSOPHY

The course traces the development of philosophy from the Greek interpretation of the universe to the scientific explanation of the modern period. Careful attention is given to Plato and Aristotle; to the period of Scholasticism; and to the independent thinkers from Descartes to Hume.

Special- studies supplement the text at historic epochs.

Prerequisite, Phil. I., II.

Junior-Senior course.

Four hours per week, first semester.

VI. HISTORY OF PHILOSOPHY (Continued)

Particular attention is given to the rise and development of the Kantian system; to Kant's influence upon subsequent thought; and to Post-Kantian Idealism in Europe and America, chiefly with reference to Hegelianism and its tendencies. Thesis required.

Prerequisites, Phil. I., II., V.

Junior-Senior course.

Four hours per week, second semester.

VII. CONTEMPORARY PHILOSOPHY

The ruling ideas of present philosophical thought are viewed critically, while select reading from representative thinkers enables the student to construct for himself a comprehensive and consistent philosophy of life. Thesis required.

Prerequisites, Phil. I., II., III., V., VI.

Senior course.

Four hours per week, first semester.

VIII. (a) PRINCIPLES OF EDUCATION

This course emphasizes the distinguishing aspects of the educative process, comprising the biological, psychological, sociological, and religious. Text is supplemented by special investigations.
Prerequisite III.
Junior-Senior course.
Three hours per week, second semester.

*(b) HISTORY OF EDUCATION

The functional aspects of the history of education are traced through Ancient, Mediaeval and Modern periods, as shown in individual and social aims. Text, lectures and reports.
Prerequisite III.
Junior-Senior course.
Three hours per week, second semester.

IX. ETHICS

This course treats of problems and relations, moral standards, theories of moral values, and includes an historical survey of the classical schools. Thesis required.
Senior course.
Three hours per week, first semester.

X. THEISM

Divine and human personality; arguments for the Divine existence; principal Anti-Theistic theories; ethical and religious teaching of Christianity; relation of Christianity to other religions.
Senior course.
Three hours per week, second semester.

*Omitted in 1918-19.

GENERAL PHYSICS

Herbert E. Marsh, Professor

I. AND II. MECHANICS, MOLECULAR PHYSICS, HEAT, SOUND, LIGHT, MAGNETISM AND ELECTRICITY

This course is designed for those who have not had a requisite amount of work in this subject to undertake the more advanced courses III. and IV., and also to meet the requirements of courses involving the essentials of this branch of science. May be pursued without previous work in Physics.

Prerequisite Math. I.

This course may not be counted as a major.

Recitations and lectures two hours and two laboratory periods per week, both semesters.

III. AND IV. MECHANICS, MOLECULAR PHYSICS, HEAT, SOUND, LIGHT, MAGNETISM AND ELECTRICITY

Although the grasping of principles and not skill in manipulation is strongly emphasized, still the fixing power of laboratory application is recognized. The purpose is to give the student an insight into the real significance of physical things, by putting him in touch with the methods and instruments of modern physical investigation and by carrying him through the process of reasoning by which the present science of physics has been developed.

Prerequisite, one year of entrance Physics and Mathematics II. and IV.

Major course.

Junior-Senior course.

Recitation and lectures two hours and two laboratory periods per week, both semesters.

V. Electrical Measurements

Various methods for exact determination of voltage, resistance, and current; also study and calibration of various types of galvanometers, voltmeters, ammeters, condensers, etc.

Major course.

Junior-Senior course.

One recitation and three laboratory periods per week, first semester .

POLITICAL AND SOCIAL SCIENCE

H. C. Tilton, Professor

All courses listed under this department will be accepted as majors.

I. Introduction to Sociology

A study of the origin and development of the family and the evolution of certain social institutions. Modern social problems such as divorce, immigration, pauperism, socialism, etc., will receive due attention.

Sophomore course.

Three hours per week, first semester.

II. Principles of Sociology

An analysis of social life and the forces producing social organization; application of principles to concrete problems. Text, lectures and reports.

Prerequisite, Psychology and Course I.

Junior-Senior course.

Three hours per week, second semester.

III. AND IV. INTRODUCTION TO ECONOMICS

The development and significance of the characteristic features of economic life, the principles governing production, distribution and consumption and the practical economic problems of modern life.
Sophomore-Junior course.
Three hours per week, both semesters.

V. GOVERNMENT

A discussion of the essential constituent elements of the state; of the functions and sphere of the state; of citizenship and nationality; of constitutions, their nature, sources and kinds; of the more important theories concerning the origin, nature, functions and organizations of the state.
Sophomore-Junior-Senior course.
Three hours per week, first semester.

VI. MUNICIPAL GOVERNMENT

Mainly a study of the modern American city will be made. The historical and comparative method will be used as examination is made of the government and experiences of European cities.
Junior-Senior course.
Three hours per week, second semester.

VII. EUROPEAN GOVERNMENTS

A comparative study of the political institutions of the leading states of Europe.
Sophomore-Junior-Senior course.
Three hours per week, first semester.

VIII. UNITED STATES GOVERNMENT AND POLITICS

The organization of state and national governments, their actual working and the history and function of political parties.

Freshman-Sophomore course.
Three hours per week, second semester.

IX. International Law

A study of the general principles governing nations in their intercourse with each other, such as rules of peace and war, diplomatic usage and methods of arbitration. Leading cases and reports on special topics.

Junior-Senior course.
Three hours per week, first semester.

X. Constitutional Law

Principles and development of American constitutional law. Lectures, reports and cases.

Prerequisite, V. or VIII.
Elective course.
Three hours per week, second semester.

XI. Economic Theory

Special studies in the leading problems of economic theory, such as the nature and origin of value, the laws of normal value and origin of interest.
Prerequisite, III. and IV.
Elective course.
Three hours per week, first semester.

XII. Industrial Corporations

The course deals with the nature and history of corporations and their significance in modern life. Attention is given to the problems arising from the growth of corporations and combinations, and to various remedies proposed.
Prerequisite, III. and IV.
Elective course.
Three hours per week, second semester.

XIII. Money and Banking

Principles of money; recent monetary history; functions of banks; development of the United States system of banks; present problems.
Prerequisite, III. and IV.
Elective course.
Three hours per week, first semester.

XIV. Labor Problems

History and development of organized labor, labor problems, and labor legislation.
Prerequisite, III. and IV.
Elective course.
Three hours per week, second semester.

SPANISH

Edith A. Hill, Professor

I. and II. First Year Spanish

Ready familiarity with the essentials of Spanish grammar, and systematic training in pronunciation, conversation and reading.
Four hours per week, both semesters.

III. and IV. Second Year Spanish

Selected texts from modern Spanish authors.
Major course.
Three hours per week, both semesters.

Schedule of Recitations

FIRST SEMESTER

7:45 O'CLOCK

Biology IX			W	Th	F
English I (Secton 1)	M	T	W		
English III				Th	F
Greek III	M	T	W	Th	
History V			W	Th	
Mathematics I				Th	F
Mathematics III	M	T	W		
Philosophy V		T	W	Th	F
Physics III	M	T			
Political Science III	M	T			F
Spanish I	M	T			
Spanish III			W	Th	F

8:45 O'CLOCK

Biology VII	M		W	Th	
Biology IX					F
Chemistry I	M	T			
Chemistry V			W		
English III			W		
English XXV		T		Th	F
German I	M	T		Th	F
German VII	M	T	W		
Greek I	M		W		
Harmony I	M			Th	
History I			W	Th	F
History V		T			
History of Art I		T			F
Latin I		T		Th	F
Mathematics I			W		
Philosophy I	M			Th	F
Physics III	M	T	W	Th	F
Political Science IX	M		W		F
Political Science XIII		T		Th	
Spanish I				Th	F

9:45 O'CLOCK

Biology III		T			
Biology VII				Th	
Chemistry I	M	T		Th	F
Chemistry V			W		
English XXXIII				Th	F
French III	M		W		F
German III	M		W		F
German V		T		Th	
Greek I				Th	F
Harmony I		T			F
History XI		T			
Latin III	M	T	W		
Mathematics XI	M	T	W		
Philosophy III	M		W		F
Physics I	M	T		Th	F
Physics V	M	T	W		
Political Science I	M			Th	F
Political Science XIII			W		

10:45 O'CLOCK

Biology III		T	W	Th	F
Chemistry III				Th	F
Chemistry V			W		
Chemistry VII	M	T			
English I (Section 2)			W	Th	F
English XIII	M	T	W		
History VII	M	T	W		
Latin V	M		W		F
Mathematics VII			W	Th	F
Philosophy IX			W	Th	F
Physics I	M	T			
Physics V	M	T	W	Th	
Political Science V	M	T	W		

11:45 O'CLOCK—ASSEMBLY

1:00 O'CLOCK

Bible I			W	Th	
Biology I			W		
Chemistry III	M	T			
Chemistry V				Th	F
Chemistry VII				Th	F
Engineering I				Th	F
Engineering III				Th	
Engineering V	M	T			
Engineering VII				Th	F
English IX	M	T	W		
English XXVII				Th	F
French I	M	T		Th	F
Geology I	M	T		Th	
Greek XI	M		W		F
History XIII		T	W	Th	
Mathematics V			W	Th	F
Political Science VII	M	T		Th	

2:00 O'CLOCK

Biology I		T	W	Th	F
Chemistry III	M	T			
Chemistry V				Th	F
Chemistry VII				Th	F
Engineering I				Th	F
Engineering III				Th	
Engineering V	M	T	W		
Engineering VII				Th	F
English VII			W	Th	F
English XVII	M	T	W		
French IX	M	T		Th	
Geology I	M				
Greek V	M		W		F
History III		T	W	Th	
History of Art III		T			F
History of Music I	M			Th	
Mathematics IX			W	Th	F
Philosophy VII	M	T	W	Th	
Political Science XI	M	T		Th	

3:00 O'CLOCK

Chemistry III	M	T			
Chemistry V				Th	F
Chemistry VII				Th	F
Engineering VII				Th	F
English XXXI	M	T			
History IX		T	W		
Latin VII	M		W		F

SECOND SEMESTER

7:45 O'CLOCK

Biology X			W	Th	F
English II (Section 1)	M	T	W		
English IV				Th	F
Greek IV	M	T	W	Th	
History VI			W	Th	
Mathematics II				Th	F
Mathematics IV	M	T	W		
Philosophy VI		T	W	Th	F
Physics IV	M	T			
Political Science IV	M	T			F
Spanish II	M	T			
Spanish IV			W	Th	F

8:45 O'CLOCK

Biology VIII	M		W	Th	
Biology X					F
Chemistry II	M	T			
Chemistry VI			W		
English IV			W		
English XXVI		T		Th	F
German II	M	T		Th	F
German VIII	M	T	W		
Greek II	M		W		
Harmony II	M			Th	
History II			W	Th	F
History VI		T			
History of Art II		T			F
Latin II		T		Th	F
Mathematics II			W		
Philosophy II	M			Th	F
Physics IV	M	T	W	Th	F
Political Science X	M		W		F
Political Science XIV		T		Th	
Spanish II				Th	F

9:45 O'CLOCK

Biology IV		T			
Biology VIII				Th	
Chemistry II	M	T		Th	F
Chemistry VI			W		
English XII	M	T			
English XXXIV				Th	F
French IV	M		W		F
German IV	M		W		F
German VI		T		Th	
Greek II				Th	F
Harmony II		T			F
History XII		T			
Latin IV	M	T	W		
Mathematics XII	M	T	W		
Philosophy IV	M		W		F
Physics II	M	T		Th	F
Political Science VIII	M			Th	F
Political Science XIV			W		

10:45 O'CLOCK

Biology IV		T	W	Th	F
Chemistry IV				Th	F
Chemistry VI			W		
Chemistry VIII	M	T			
English II (Section II)			W	Th	F
English XIV	M	T	W		
History VIII	M	T	W		
Latin VI	M		W		F
Mathematics VIII			W	Th	F
Philosophy X			W	Th	F
Physics II	M	T			
Political Science VI	M	T	W		

11:45 O'CLOCK—ASSEMBLY

1:00 O'CLOCK

Bible II			W	Th	
Biology II			W		
Chemistry IV	M	T			
Chemistry VI				Th	F
Chemistry VIII				Th	F
Engineering II				Th	F
Engineering VI	M	T			
Engineering VIII				Th	F
English X	M	T	W		
English XXVIII				Th	F
French II	M	T		Th	F
Greek XII	M		W		F
History XIV		T	W	Th	
Mathematics VI			W	Th	F
Political Science II	M	T		Th	

2:00 O'CLOCK

Biology II		T	W	Th	F
Chemistry IV	M	T			
Chemistry VI				Th	F
Chemistry VIII				Th	F
Engineering II				Th	F
Engineering VI	M	T	W		
Engineering VIII				Th	F
English VIII			W	Th	F
English XVIII	M	T	W		
French X	M	T		Th	
Greek VI	M		W		F
History IV		T	W	Th	
History of Art IV		T			F
History of Music II	M			Th	
Mathematics X			W	Th	F
Philosophy VIII		T	W	Th	
Political Science XII	M	T		Th	

3:00 O'CLOCK

Chemistry IV	M	T			
Chemistry VI				Th	F
Chemistry VIII				Th	F
Engineering VIII				Th	F
English XXXII	M	T			
History X		T	W		
Latin VIII	M		W		F

College of Fine Arts

DEPARTMENT OF MUSIC AND ART

GENERAL INFORMATION

In accordance with the plan followed in connection with the other departments of the University, provisions have been made for the most thoro and advanced work in the Departments of Music and Art.

The line of work in the University course in Music, conferring the degree of Bachelor of Music, corresponds with that of some of the European Universities.

Preparatory, or Elementary work has also been provided to accommodate those who have not the proper number of entrance requirements for registration in the College work in Music. Saturday classes for children and young people in both Piano and Art provide a valuable opportunity for the cultivation of talent in the early years under the guidance of competent instructors, who are under the supervision of the Dean of the College of Fine Arts.

Realizing the extent to which superior musical efficiency is attainable only in conjunction with the highest cultural development, stress is laid upon this phase of the students' growth; and special attention is directed to such courses in the other departments of the University as will prove of value in this respect to Music and Art students.

A Choral Society under the direction of the Head of the Department of Voice gives opportunity for expression and development of musical ability to the students of the entire University.

The College of Fine Arts is prepared to furnish the following eminent soloists and musical organizations for concerts, recitals, etc., in whole or in part:

Olga Steeb, the celebrated pianist.

Oskar Seiling, the famous violinist.

Dean Chas. Edward Hubach, noted tenor.

The Men's College Glee Club and the Women's College Glee Club are open to a limited number of engagements.

For particulars and terms, address the Dean of the College of Fine Arts, University of Redlands, Redlands, California.

Classes in the Department of Music will be organized at the beginning of the college year, as indicated in the Calendar.

Special lessons may be begun at any time.

Piano practice may be arranged for at the Fine Arts Building or Bekins Hall.

DEPARTMENTS, DEGREES AND REQUIREMENTS

DEPARTMENTS

The College of Fine Arts is made up of the following Departments:

(1) Music. (2) Drawing and Painting.

DEGREES AND CERTIFICATES

A Diploma confering the degree of Bachelor of Music will be awarded to those who complete the required courses in the Department of Music.

A Special Diploma conferring the degree of Bachelor of Music will be awarded to those who complete the required courses with high standing in all subjects as well as in public performance.

REQUIREMENTS FOR ADMISSION

There are two methods of admission to the College of Fine Arts, (1) by Examination, (2) by Certificate.

By Examination:—All students who cannot present certificates from accredited schools will be examined in the subjects required for entrance.

By Certificate:—Students will be admitted without examination on certificates from accredited High Schools or other preparatory schools, provided that the course pursued in High School shall include at least twelve units in subjests usually designated as solids.

Students who do not present Physics for entrance will be required to pursue that subject through at least the discussion of Sound.

In Piano and Organ—Applicants are required, in addition to the above, to pass an examination embracing the following or their equivalent:

1. An exercise. 2. Selections from Bach. 3. Sonata—Classical School.

In Voice and Violin:—Applicants for the regular course in Voice, or Violin, must be able to play Piano accompaniment of moderate difficulty. Any deficiencies in this respect must be made up before graduation.

SPECIAL STUDENTS IN MUSIC

Students need not be deterred from seeking to enter the School of Fine Arts of the University because they can not satisfy all the requirements for full admission to that school. Those requirements are for persons who are candidates for a degree in music. All persons who desire to pursue a special line of work, without conforming to the requirements for entrance, or following a prescribed course, may apply for admission to the School of Fine Arts as special students. The admission of such persons is under the control of the Dean, to whom they should apply, and whose certificate of acceptance must be presented to the Registrar before registration.

REQUIREMENTS FOR GRADUATION

No student will be permitted to graduate from the Department of Music, College of Fine Arts, who has not credit for the 124 hours as designated below, including two years of physical education, and who has not taken at least one year of regular work at the University.

Students taking instrument work in music are required to practice two hours per day for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives three hours of college credit toward the 124 hours required for graduation.

Students taking Voice are required to practice from one-half hour to two hours per day, according to the grade of the work, for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives the student two hours of college credit toward the 124 required for graduation.

The required work leading to the different degrees is as follows:

BACHELOR OF MUSIC IN VOICE

Voice	32 hours
Piano (Special)	24 hours
History of Music	4 hours
Theory	16 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
Sight Singing and Ear Training	2 hours
Electives	6 hours
Total	124 hours

BACHELOR OF MUSIC IN PIANO

Piano	48 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	2 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
One additional Instrument or Voice	8 hours
Electives	6 hours
Total	124 hours

BACHELOR OF MUSIC IN VIOLIN

Violin	48 hours
Piano (Prep.)	12 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	2 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
Electives	2 hours
Total	124 hours

BACHELOR OF MUSIC IN ORGAN

Organ	24 hours
Piano	24 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	2 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
Electives	14 hours
Total	124 hours

Note—For description of required Liberal Arts courses see Departments of Instruction, College of Liberal Arts.

ART

Students for the Art Department will be admitted at any time, but not for less than one semester except by special arrangement with the Dean.

Instruction in all Art Classes is individual. Advancement of each student depends upon the degree of proficiency attained.

ADDITIONAL REQUIREMENTS

ARTISTS' COURSE—COLLEGIATE COURSE

These courses are identical in outline, but students in the Artists' courses are expected to do a larger amount of work, to maintain the highest grade in all musical subjects, and give a graduating recital. This is not required in the collegiate course, which is intended for those who wish to fit themselves for teachers or take music for personal culture rather than to become public performers. After the second year students are graded in the two courses according to their standing.

Students who are backward in technical development at the end of the Sophomore year must make up the deficiency by special work in Piano before they receive Junior standing.

CONCERTS AND RECITALS

Concerts are frequently given in Recital Hall, by the Faculty and advanced students.

Concert courses which are arranged for at special rates by the Spinet Club of Redlands, afford Students an opportunity to hear many noted musicians.

Recitals are given semi-monthly by the students of the College of Fine Arts at which works studied in the class room are performed before audiences of fellow students and their friends. All Fine Arts students are required to attend these concerts and recitals, and to take part in programs at least twice a year and to present, each semester, a record of attendance. These semi-public appearances are of great assistance in enabling the student to acquire the ease and self-possession so essential to a successful public appearance.

At the close of the College year, during Commencement Week, the Anniversary Recital of the College of Fine Arts, Department of Music is held at which the students doing the best work in performance at the above-mentioned recitals are heard.

EXPENSES

A Matriculation fee of Five Dollars is required of each student on registration at the offices of the University.

Rates with heads of departments: Per semester, 16 weeks.

Voice, two periods per week	$96.00
Voice, one period per week	48.00
Voice, (3 in class) two periods per week	64.00
Voice, (3 in class) one period per week	32.00
Piano, two periods per week	96.00
Piano, one period per week	48.00
Organ, two periods per week	64.00
Organ, one period per week	32.00
Violin, one period per week	48.00

Rates with Instructors.

Piano, two periods per week	64.00
Piano, one period per week	32.00
Piano, two periods per week	42.00
Piano, one period per week	22.00
Piano (Saturday class for young people)	12.00
Violin, two periods per week	42.00
Violin, one period per week	22.00

Rates for Special Students.

(Private lessons at stated rates may be begun at any time during the year, students paying for the individual lessons proportionately.)

Rates for Art students.

Drawing and Painting, five hours per week	50.00
Drawing and Painting, two hours per week	20.00
Children's Class, (Saturdays) one hour	12.00
Practice Piano fee, per semester	5.00

The other courses required in the College of Fine Arts are class subjects, and are paid for at the regular rate of $16.00 for each five hours of class recitation or fraction thereof.

DEPARTMENTS OF INSTRUCTION

ART

Kate Watkins, Head of Art Department

Complete course in the following:
Drawing.
Modelling in clay.
Painting in oil and water color.
Working from the cast, still life, and model.
Composition and design.
Out-door sketching.

The following course is designed for those who wish to prepare themselves for teachers of Art. A certificate of proficiency will be awarded for the satisfactory completion of this course which is open to graduates of recognized High Schools:

Studio work	18 hours
Art History	8 hours
English	6 hours
Psychology	3 hours
Ethics	3 hours
Modern Languages	14 hours
Biblical Studies	2 hours
Electives	11 hours
Total	65 hours

STUDIO WORK

Charcoal drawing from cast and still life.
Pen and ink, and pencil drawing.
Modelling in clay.
Painting in oil and water color, from still life and model.
Outdoor sketching.
Composition and design.
Painting from life. (Tuesdays and Fridays only.)
Artistic anatomy—Perspective.

I. Ancient and Mediaeval Architecture and Sculpture.
Two hours per week, first semester.

II. Renaissance and Modern Architecture and Sculpture. Continuation of Course I.
Two hours per week, second semester.

III. Painting, Early Painting and Renaissance Painting.
Two hours per week, first semester.

IV. Painting, Modern. Continuation of Course III.
Two hours per week, second semester.
Courses in Art History not open to Freshmen.
Lecture course, supplemented by collateral reading and picture study.

PIANO

Olga Steeb, Professor

Annette Cartlidge, Instructor

Flora Cordelia Cook, Instructor

I. Piano

Technical training according to the principles of modern piano technique. Systematic training in art-principles of technique, phrasing and tone-quality. Elementary study of the characteristics of the various classic composers. Repertoire of selections from standard works by the best composers.

Berens, Czerny, Heller, Bach.

Freshman course.

Two hours per week, first semester.

II. Piano

Technical training.

Continuation of classical study (at least two Sonatas).

Reportoire of selections from the works of the best composers, classic and romantic.

Freshman course.

Two hours per week, second semester.

III. Piano

Technical training—Czerny, Cramer, Kulak.—Study of the characteristics of the various classic composers. Repertoire.

Sophomore course.

Two hours per week, first semester.

IV. PIANO

Technical training—Continuation of classical study (at least two Sonatas). Repertoire.

Sophomore course.

Two hours per week, second semester.

V. PIANO

Technical training. Romantic School. Beethoven. —Sonatas. Repertoire.

Exercises for the independence of the fingers, I. Phillip. Studies of Clementi, Cramer, Czerny (Op. 740) and others as needed. Bach.

Junior course.
Two hours per week, first semester.

VI. PIANO

Technical training.—Bach (continued). Beethoven (continued).

The Romantic School.

Junior course.

Two hours per week, second semester.

VII. PIANO

Technical training.
Studies selected from the works of the greatest masters of pianistic literature.

Senior course.
Two hours per week, first semester.

VIII. PIANO

Technical training. Interpretations (Christiani, Art-principles). Pedagogics (for prospective teachers).

Senior course.
Two hours per week, second semester.

PUBLIC SCHOOL MUSIC

Annette Cartlidge, Instructor

The University offers unusual advantages to students wishing the best preparation for efficient teaching, especially to those who wish to prepare themselves to teach music in high schools in addition to French, English, or some other subject.

Teachers with experience in public schools and with some musical training, who desire to enter a special field, will find the course suited to their needs. Students may combine work in this department with the four years course in Liberal or Fine Arts.

I. AND II. PUBLIC SCHOOL MUSIC

Fundamentals of music teaching in the kindergarten. Rhythmic expression. Singing games. Song interpretation. Individual singing. Work with monotones. Creative songs.
Fundamentals of music teaching in the primary grades, including first, second, and third grades. The work of the kindergarten expanded and enlarged. Practice teaching.

Fundamentals of music teaching in the fourth, fifth, sixth, seventh, and eighth grades. High School course outlined. Preliminaries to sight singing, chorus, glee clubs, orchestra, music appreciation, presentation of Harmony, analysis, musical form, materials, and practice teaching.

Two hours per week, both semesters.

III. AND IV. SIGHT SINGING AND EAR TRAINING

Freshman course.
Two hours per week, both semesters.

THEORETICAL SUBJECTS

HARMONY, COUNTERPOINT, FORM AND COMPOSITION

Flora Cordelia Cook, Instructor

I. HARMONY

The rudiments of music. Major and minor scales. Intervals Chords and their inversions.

Freshman-Sophomore course.
Two hours per week, first semester.

II. HARMONY

Harmonization of figured basses and melodies using triads.
Freshman-Sophomore course.
Two hours per week, second semester.

III. HARMONY

The dominant seventh and ninth chords and their inversions. Modulation. Secondary sevenths.

Sophomore-Junior-Senior course.
Prerequisite I. and II.
Two hours per week, first semester.

IV. HARMONY

Suspensions and embellishments.
Diminished seventh chords.
Chromatic harmony.

Sophomore-Junior-Senior course.
Two hours per week, second semester.

*V. COUNTERPOINT

Junior-Senior course.
Prerequisite I. and II.
Two hours per week, first semester.

VI. Canon and Fugue
Junior-Senior course.
Prerequisite V.
Two hours per week, second semester.

*VII. Harmonic Analysis and Musical Form
Free composition and orchestration analysis.
Junior-Senior course.
Prerequisite, I.-VI.
Two hours per week, first semester.

VIII. Musical Appreciation
Junior-Senior course.
Two hours per week, second semester.

*Note—V. and VI. alternate with VII. and VIII.

VIOLIN

Oskar B. Seiling, Professor

Mrs. Madeline Barnes-Childs, Instructor

I. Violin
Joachim method, first part of Book I.
Violine Technique; Sevcik, Book I.
Training of ear; bowing and left hand.

II. Violin
Joachim methods, second part of Book I.
Violin Technique; Sevcik.
Etudes: Kayser, Mazas, Herman, etc.
Easy solos from the different composers.

III. Violin
Joachim method, third part of Book I.
Violine Technique; Sevcik Book II.

Scales and other studies.
Etudes: Mazas, Leonard, Dont, etc.
Solos according to ability of student.

IV. VIOLIN

Joachim method, fourth part of Book I.
Violine Technique; Sevcik.
School Concerti and other selections; Ries, Viotti, Rode, etc.

V. VIOLIN

Joachim method, Book II.
Violine Technique; Sevcik.
Etudes: Herman, Dont, Mazas, etc.
Concerti, Sonate and other solos from modern and old composers.

VI. VIOLIN

Joachim method, Book II.
Violine Technique; Sevcik.
Concerti Sonate and other solos from Beethoven, David, Massenet, Couperin, Brahms, Bach, etc.

VII. VIOLIN

Joachim method.
Violine Technique; Sevcik.
Etudes: Rode, Leonard, Campanolli, etc.
Concerti: Spohr, Vitalli, Lipinski, etc.
Sonate: Veraccina, Tartini, Corelli, Bach.

VIII. VIOLIN

Joachim method.
Violin Master Technique; Sevcik.
Etudes: Leonard, Petri, Dont, Vieuxtemps, Paganini.
Concerti for finish and interpretation; Saint-Saens, Mendelssohn, Wieniawski, Beethoven, Paganini, etc.

VOICE

Charles Edward Hubach, Professor

I. Voice

Systematic training in voice production. Ear and mental training in regard to tone-quality.
Concone's Fifty Lessons for Medium Part of Voice.

Freshmen course.
Two hours per week, first semester.

II. Voice

Physical training in regard to tone-quality.
Bel Canto. Anthology of Italian Song, embracing the pre-classical song writers, Peri, Caccini, Carissimi and Monteverdi.

Freshmen course.
Two hours per week, second semester.

III. Voice

Continuation of Voice II. Voice from Psychological view point, Interpretation. Continuation of Anthology of Italian Song, volumes I and II. Early classics of Italian School; Scarlatti, Handel, Caldara, Gluck, etc.

Sophomore course.
Two hours per week, first semester.

IV. Voice

Concone's Forty and Twenty-five Lessons for Medium Part of Voice. English and American picture study.
Sacred Song Literature for Protestant Churches.
English and American Simple Secular Song Literature.
Sophomore course.
Two hours per week, second semester.

V. VOICE

Continuation of Voice IV. Concone's Fifteen Lessons. Later Italian Classics: Mozart, Haydn, Rossini, Donizetti, Bellini, Verdi, etc., Oratorio Opera.

Junior course.

Two hours per week, first semester.

VI. VOICE

Trills, cadenze and general training in agility. English and American general song literature of medium difficulty. Oratorio opera.

Junior course.

Two hours per week, second semester.

VII. VOICE

Continuation of Voice VI. Ensemble singing. General old and new opera.

German and French song literature, including Schumann, Schubert, Brahms, Franz, Grieg, etc.

Senior course.

Two hours per week, first semester.

VIII. VOICE

Dramatic singing or singing with action.

General International Repertoire (compositions sung in the original languages).

General training for teachers of voice.

Senior course.

Two hours per week, second semester.

Register of Students

GRADUATES 1917

BACHELOR OF ARTS

Benson, Rhoda Entella	History
Berger, Carey Kingsbury	English
Blowers, Edith Jeannette	Ancient Languages
Davis, Ruth Frazier	Ancient Languages
Geistweit, Harold Nash	Philosophy
Hatch, Flora Faith	History
Jacobsen, Arthur Daniel	Political Science
Knopp, Juliet Lee	English
Lehigh, Lawrence Roy	English
Leonard, James Sawyer	Political Science
Symmes, Eleanor Ann	English
Turrill, Gardner Stilson	Philosophy
Turrill, May Emeline	English
Thacker, Gladys Mae	English

BACHELOR OF SCIENCE

Cooper, Frederick Leonard	Chemistry
Gillett, Charles Edwin	Chemistry

BACHELOR OF MUSIC

Black, Carolina Abigail	Piano
Deming, Nellie F. Merrill	Voice
Hubble, Lucile Vivian	Piano
Smith, Elizabeth Irene	Voice
Williams, Joshua	Voice

In the register of students below the following abbreviations are used: F., S., J., Sr.,, means Freshman, Sophomore, Junior or Senior, respectively; Sp., Special, and Mu., Music.

Acker, Tecel Corona, Sp	Prescott, Arizona
Ahlstrom, Eleanor Christina, J	Los Angeles, Cal.
Alcantara, Pedro, S.	Philippine Islands
Alford, Nellie Lorena, Sr	Long Beach, Cal.
Ambler, Ruth, F	Pasadena, Cal.
Andrews, Aileen Ruth, J	Redlands, Cal.
Austin, Edith H., F	Redlands, Cal.
Bacon, Carol Harriett, F	Biggs, Cal.
Bamford, Edwin Fitton, S	Redlands, Cal.
Barker, Erwin, F	Petaluma, Cal.
Barker, Helen May, F	Petaluma, Cal.
Barrett, Virginia, F	Redlands, Cal.
Batterson, Beatrice, Mu	Redlands, Cal.
Baddall, Mabel Buckman, Art	Redlands, Cal.
Benisch, Milicent, S	Redlands, Cal.
Blanc, Clara Bernice, F	Julian, Cal.
Blowers, Francis Emile, F	Madera, Cal.
Blowers, Ruth Anna, S	Madera, Cal.
Boettger, Lulu Lisette, Sr	Redlands, Cal.
Brown, Clara Luella, Sp	Long Beach, Cal.
Brownlie, Jean Alexander, S	Vallejo,Cal.
Buchanan, Ethel E., Mu	San Bernardino, Cal.
Burkey, Ulysses, Mu	San Bernardino, Cal.
Campbell, Anne Jane, Sr	Pasadena, Cal.
Campbell, Clinton Calvin, Sr	Pasadena, Cal.
Chadwick, Wallace L., S	Redlands, Cal.
Christensen, Nellie Esther, Sr	Selma, Cal.
Churchill, Carrie H., F	Long Beach, Cal.
Clark, Margaret H., F	Phoenix, Ariz.
Clevenger, Edna A., F	Caruthers, Cal.
Coggins, May A., S.	Phoenix, Ariz.

Coggins, Ruth Mason, J.	Phoenix, Ariz.
Collins, Elizabeth Cary, F.	Berkeley, Cal.
Conser, Kathryn, F.	Colton, Cal.
Copeland, Elizabeth Angeline, Mu	Yucaipa, Cal.
Copeland, Frances Sherwood, Mu	Yucaipa, Cal.
Cortner, Catherine, Mu	Redlands, Cal.
Cruickshank, Helen Elizabeth, S.	Yucaipa, Cal.
Crump, Roland F., Sp	Redlands, Cal.
Cummings, William Vaughan, F.	Pasadena, Cal.
Curtis, Margaret, J.	San Bernardino, Cal.
Custer, Clyde, C., F.	Covina, Cal.
Daniels, Lola, S.	Redlands, Cal.
Daniels, Rose, F.	Redlands, Cal.
Davis, Dorothy Irene, Sr.	Hemet, Cal.
Deming, Harry, Mu.	Redlands, Cal.
Deming, Katherine, Sp	Bellows Falls, Vt.
Dunham, Constance Estelle, Mu	Yucaipa, Cal
Dye, Beulah Flora, S.	Cutler, Cal.
Dye, Fred Lee, F.	Redlands, Cal.
Dye, Mabel, F.	Long Beach, Cal.
Ellington, Ruth, F.	Azusa, Cal.
Elliott, Elsie Jewell, Sr.	South Pasadena, Cal.
Farquhar, Vernon Douglas, F.	Hollywood, Cal.
Fickle, Thomas Lincoln, F.	San Diego, Cal.
Finley, S. Irene, S.	Santa Barbara, Cal.
Fitch, Mildred, F.	Long Beach, Cal.
Fitzsimmons, Helen K., F.	Redlands, Cal.
Ford, Clarence Ingham, Sr.	Ceres, Cal.
Ford, Louise, Mu	Redlands, Cal.
Freeman, Dorothy, S.	Long Beach, Cal.
Gleason, Floy Fern, Sr.	Corona, Cal.
Graham, Mae Clifton, S.	Bay City, Mich.
Green, Albert Vernon, S.	Long Beach, Cal.
Haddock, J. Perry, S.	San Diego, Cal.
Hansen, Lucile May, Sr.	Greenleaf, Kan.
Hansen, Nina Bertha, Sr.	Greenleaf, Kan.

Harvey, Mary Rachael, S.	Long Beach, Cal.
Healy, Warren C., F.	Redlands, Cal.
Hedstrom, Carl George, Sr.	Anaheim, Cal.
Helsley, Carol Virginia, Sr.	Ceres, Cal.
Hemenway, D. Fraser, S.	Long Beach, Cal.
Hentschke, Hildegarde Clara, Sr.	Redlands, Cal.
Hile, Mary, S.	Long Beach, Cal.
Hill, Marion Elizabeth, S.	Redlands, Cal.
Hollinger, Clara Marie, Sp.	Los Angeles, Cal.
Holsten, Viola, F.	Dodge, Nebr.
Holt, Marvin Greenwood, Sr.	Salem, Ore.
Hostetler, Mrs. W. B., Mu.	Craftonville, Cal.
Hotchkiss, Lucile, F.	Hollywood, Cal.
Husted, Otto, S.	Redlands, Cal.
Inocencio, Felipe, S.	Philippine Islands
Jacobsen, Emmanuel Broholm, Sr.	Selma, Cal.
Jameson, Adelaide, S.	Corona, Cal.
Johnson, John Stanley, S.	Redlands, Cal.
Johnson, Lucile, F.	Redlands, Cal.
Johnson, Marie, S.	Redlands, Cal.
Johnson, Ruth Frances, J.	Ogden, Utah
Kerr, Anita, Mu.	Redlands, Cal.
Kerr, Gladys Erma, F.	Coalinga, Cal.
Kilby, Colon O., F.	Coalinga, Cal.
Kilby, Izenia Neta, F.	Coalinga, Cal.
Kincher, E. Othello, Sr.	Redlands, Cal.
Kling, Margaret Hulbert, J.	Santa Monica, Cal.
Knopp, Juliet Lee, P. G.	Mentone, Cal.
LaBar, Eva Gena, S.	Porterville, Cal.
Lackey, Dick, F.	Redlands, Cal.
Lehigh, Helen A., F.	Phoenix, Ariz.
Leth, Emanuel B., F.	Selma, Cal.
Levering, Lucy, F.	Redlands, Cal.
Lindblom, Maria Theresa, F.	Redlands, Cal.
Loper, Harold, F.	Redlands, Cal.
Loper, Mildred M., F.	Redlands, Cal.

Lyon, Lois Mabel, S.	Redlands, Cal.
Marchant, Mildred F.	Tustin, Cal.
Marsh, Doris C., Mu.	Redlands, Cal.
May, Horace William, Sp.	Orosi, Cal.
Maynard, David Perry, F.	Redlands, Cal.
McPhee, Claire, F.	Santa Paula, Cal.
McDonald, Harl, Mu.	Redlands, Cal.
Miller, Helen Lenore, F.	Los Angeles, Cal.
Mitchell, Dorothy Lillian, F.	San Luis Obispo, Cal.
Mitchell, Elmer M., Sp.	Redlands, Cal.
Morrison, Felix, Mu.	Redlands, Cal.
Mosher, Dorothy R., F.	San Diego, Cal.
Murphy, Loreen, F.	San Pedro, Cal.
Murphy, Ruth, F.	San Pedro, Cal.
Nelson, Dorothea Eckstrom, S.	Redlands, Cal.
Noble, Paul Israel, F.	Los Angeles, Cal.
Ogborn, A. Gerald, F.	Redlands, Cal.
Ogborn, Gladys Henrietta, Sr.	Redlands, Cal.
Phillips, Marjorie Alma, J.	Porterville, Cal.
Potter, Faith Noble, F.	St. Augustine, Fla.
Powell, Herbert James, S.	Redlands, Cal.
Pushman, Abbey, Mu.	Riverside, Cal.
Reid, Clyde Carson, F.	Reedley, Cal.
Rhoades, J. Irving, S.	Redlands, Cal.
Rice, L. Marvin, Sp.	Sanger, Cal.
Richards, Walter John, F.	Pasadena, Cal.
Richardson, William Duke, Mu.	Redlands, Cal.
Riglesberger, Louis Frank, S.	Long Beach, Cal.
Sager, Clara, S.	Winters, Cal.
Sallee, Margaret Ruth, F.	Lordsburg, Cal.
Sater, Leonore Esteline, S.	Danville, Ia.
Sater, Roma M., F.	Danville, Ia.
Sawyer W. Curtis, S.	Redlands, Cal.
Scott, Harold H., F.	Redlands, Cal.
Seager, Helen Elizabeth, Sp.	Redlands, Cal.
Seal, Harold Finch, S.	Redlands, Cal.

Sievert, Leo Ellsworth, J.	Alhambra, Cal.
Silke, Victor Stanley, Sr.	Santa Barbara, Cal.
Simpson, Harley Robert, F.	Corning, Cal.
Slaton, Hazel, S.	Hemet, Cal.
Smith, Cleon H., S.	Redlands, Cal.
Smith, Horace, F.	Selma, Cal.
Smith, Irene Beavers, J.	Driggs, Idaho
Snell, Beryl Esther, F.	Hollywood, Cal.
Sommer, Flora, F.	South Pasadena, Cal.
Sowell, Kathryne Marie, F.	Sanger, Cal.
Stamps, Mary Louise, Sr.	South Pasadena, Cal.
Stanley, Tyra Golden, S.	Phoenix, Ariz.
Stickles, Harriet B., F.	Clovis, Cal.
Stockton, Elizabeth Jane, Sr.	Redlands, Cal.
Strauss, Georgiana, Sp.	Redlands, Cal.
Stubbs, Aileen Joyce, Sr.	Redlands, Cal.
Suess, Dorothy Dewey, S.	Redlands, Cal.
Sweeney, Christine, S.	Redlands, Cal.
Sweeney, Susan Theresa, S.	Redlands, Cal.
Taylor, Floyd, F.	Redlands, Cal.
Thompson, Hollis R., S.	Turlock, Cal.
Tinker, Gwendolyn Maude, S.	Redlands, Cal.
Tinkham, Warren Ayer, F.	Palacios, Texas
Toeppler, Perle Dressie, Mu.	Highland, Cal.
Tolle, Glessner, S.	Redlands, Cal.
Trine, Frank Leesyl, J.	Madera, Cal.
Truesdaill, Roger Williams, F.	Redlands, Cal.
Turrill, Park Lovejoy, S.	Redlands, Cal.
Untereiner, Raymond Edward, S.	Redlands, Cal.
Wagner, Florence June, F.	San Jose, Cal.
Wall, Gladys Barr, S.	Selma, Cal.
Waterman, Charles Merle, S.	Pasadena, Cal.
Wattenbarger, Ora Belle, F.	Imperial, Cal.
Wedberg, Conrad Frank, S.	Redlands, Cal.
Wedberg, Hilda Gustava, F.	Redlands, Cal.
Welborn, Lucile, Mu.	Rialto, Cal.

Welton, Frances, Art	Redlands, Cal.
Wente, Edith Grace, F.	Selma, Cal.
Wheat, Mildred Masten, Sp.	Redlands, Cal.
Wheatley, Earnestine Topliff, Sr.	Loma Linda, Cal.
White, Mildred Madeline, S.	Craftonville, Cal.
Widney, Vincent Congress, F.	Pasadena, Cal.
Wiese, Herbert F., F.	Redlands, Cal.
Wilkes, Margaret, F.	Redlands, Cal.
Wilkes, Vera Virginia, F.	Redlands, Cal.
Willis, Frances Elizabeth, S.	Redlands, Cal.
Willoughby, Myrna Guernsey, F.	Santa Barbara, Cal.
Wilson, Irl Clifford, S.	Redlands, Cal.
Wilson, Leliah Grace, Sp.	Redlands, Cal.
Wisdom, Eva Marie, Sr.	Escondido, Cal.
Woodbury, Isabelle, F.	Riverside, Cal.
Wright, Florence H., F.	Los Angeles, Cal.
Yount, William Joseph, F.	Redlands, Cal.

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PUBLISHED QUARTERLY BY THE
UNIVERSITY OF REDLANDS

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Annual Announcement

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[illegible] 1920

Redlands, California
1919-1920

Entered as Second Class Matter, May 1, 1911,
at the Postoffice at Redlands, California under
the Act of July 16, 1894.

H. L. RICE & SON: REDLANDS

Calendar

1919

	Sun.	*Mon.*	*Tues.*	*Wed.*	*Thur.*	*Fri.*	*Sat.*		*Sun.*	*Mon.*	*Tues.*	*Wed.*	*Thur.*	*Fri.*	*Sat.*
July	…	…	1	2	3	4	5	**Oct.**	…	…	…	1	2	3	4
	6	7	8	9	10	11	12		5	6	7	8	9	10	11
	13	14	15	16	17	18	19		12	13	14	15	16	17	18
	20	21	22	23	24	25	26		19	20	21	22	23	24	25
	27	28	29	30	31	…	…		26	27	28	29	30	31	…
Aug.	…	…	…	…	…	1	2	**Nov.**	…	…	…	…	…	…	1
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
	31	…	…	…	…	…	…		30	…	…	…	…	…	…
Sep.	…	1	2	3	4	5	6	**Dec.**	…	1	2	3	4	5	6
	7	8	9	10	11	12	13		7	8	9	10	11	12	13
	14	15	16	17	18	19	20		14	15	16	17	18	19	20
	21	22	23	24	25	26	27		21	22	23	24	25	26	27
	28	29	30	…	…	…	…		28	29	30	31	…	…	…

1920

Jan.	…	…	…	…	1	2	3	**April**	…	…	…	…	1	2	3
	4	5	6	7	8	9	10		4	5	6	7	8	9	10
	11	12	13	14	15	16	17		11	12	13	14	15	16	17
	18	19	20	21	22	23	24		18	19	20	21	22	23	24
	25	26	27	28	29	30	31		25	26	27	28	29	30	…
Feb.	…	…	…	…	…	…	…	**May**	…	…	…	…	…	…	1
	1	2	3	4	5	6	7		2	3	4	5	6	7	8
	8	9	10	11	12	13	14		9	10	11	12	13	14	15
	15	16	17	18	19	20	21		16	17	18	19	20	21	22
	22	23	24	25	26	27	28		23	24	25	26	27	28	29
	29	…	…	…	…	…	…		30	31	…	…	…	…	…
Mar.	…	1	2	3	4	5	6	**Jun.**	…	…	1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30	31	…	…	…		27	28	29	30	…	…	…

Contents

PAGE
Accrediting by U. of C. and Stanford 39
Admission—College of Liberal Arts 29
    College of Fine Arts 90
Advanced Standing 31
Art Department 94, 97
Argumentation 58
Astronomy 71
Athletics 27
Biblical Studies 44
Biology 45
Board and Rooms 35
Board of Trustees 8
Botany 45
Buildings 22
Calendar 3
Campus 22
Chemisty 48
Christian Associations 26
College Calendar 6
Colors 27
Concerts and Recitals 95
Courses—College of Liberal Arts 44
    College of Fine Arts, Music 99
    Art 97
Degrees—Baccalaureate—College of Liberal Arts 41, 42
    College of Fine Arts 89
Departments of Instruction (see Courses of Study)
Diplomas—College of Liberal Arts 41, 42
    College of Fine Arts—Music 92
Dormitories 35
Economics 79
Education 75
Engineering 50
English 52
Events of the Past Year 17
Expenses—College of Liberal Arts 36
    College of Fine Arts 95, 96
    Dormitory 37
Faculty 10
Fees (see Expenses)
French 59
General Requirements, etc 33
Geology 60
German 61

PAGE
Grading ... 34
Graduates, 1918 ... 107
Graduation (Requirements for)—College of Liberal Arts ... 41
  College of Fine Arts ... 90, 91, 92
Greek ... 62
Gymnasiums ... 24, 25
Harmony ... 102
Historical ... 20
History ... 64
History of Art ... 98
History of Music ... 67
Latin ... 67
Library ... 38
Literary Societies ... 26
Location ... 21
Majors and Minors ... 43
Mathematics ... 70
Matriculation ... 32
Music (see College of Fine Arts)
Organizations ... 25
Philosophy ... 74
Physics ... 77
Physical Education ... 41
Piano ... 99
Political Science ... 78
Prizes ... 38
Publications ... 27
Public School Music ... 101
Public Speaking ... 58
Registration ... 32
Requirements for Graduation—College of Liberal Arts ... 41
  College of Fine Arts ... 91, 92, 93
Rooms ... 35
Schedule of Recitations ... 84-88
Scholarships ... 34
Social Science ... 78
Sociology ... 78
Spanish ... 82
Special Students ... 33
Standing Committees ... 16
Student Help ... 35
Students, Register of ... 107
Theory ... 102
Trustees ... 8
Tuition (see Expenses)
Violin ... 103
Voice ... 105
War Service ... 39

College Calendar

1919

September 13th and 15th, Saturday and Monday—Entrance examinations and registration for first semester.

Note—The Saturday registration is especially intended for students living in and near Redlands

September 16th, Tuesday—First semester begins with Assembly, at 11:00 a. m.

November 27th, Thursday, to December 1st, Monday at 7:45 a. m., Thanksgiving recess.

December 19th, Friday—Christmas Vacation begins at 4:00 p. m.

1920

January 5th, Monday—Christmas Vacation ends at 7:45 a. m.

January—Monday following the meeting of the Southern California Baptist Convention, semi-annual meeting of the Board of Trustees, 1:00 p. m.

January 26th, 27th, 28th and 29th, Monday, Tuesday, Wednesday and Thursday—Examinations for first semester.

January 30th, Friday—Second semester begins at 7:45 a. m.

February 29th, Sunday—Day of Prayer for Colleges.

March 26th, Friday—Spring Vacation begins at 4:00 p. m.

April 5th, Monday—Spring Vacation ends at 7:45 a. m.

June 8th, 9th, 10th and 11th, Tuesday, Wednesday, Thursday and Friday—Examinations for second semester.

June 12th, Saturday—Anniversary of the College of Fine Arts, Department of Music, 8:00 p. m.

June 13th, Sunday—Baccalaureate Sermon, 11:00 a. m. Service, 7:30 p. m.

June 14th, Monday evening—Annual Zanja Fiesta.

June 15th, Tuesday—Alumni meeting and banquet, 11:00 a. m.
Semi-Annual Meeting of the Board of Trustees, 10:30 a. m.
Class Day.

June 16th, Wednesday—Commencement, 10:30 a. m.
College Dinner.

Board of Trustees

MEMBERS OF THE BOARD

TERM EXPIRING 1920

G. S. Turrill, Long Beach.
Arthur Gregory, Redlands.
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Daniel Smiley, Redlands.
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C. W. Brinstad, Berkeley.
H. L. Moody, San Diego.
L. A. Boadway, Pasadena.
Weymouth Crowell, Los Angeles.
Mrs. W. H. Jameson, Corona.
G. Rupert Johnson, Pasadena.
Mrs. Mary P. Folkins, Redlands-Alumni Representative.

TERM EXPIRING 1922

A. T. Currier, Pomona.
H. E. Wilkinson, Fresno.
J. Whitcomb Brougher, Los Angeles.
J. H. Strait, Redlands.
W. H. Fowler, Los Angeles.
W. F. Harper, Los Angeles.
Mrs. Martin Bekins, Los Angeles.
Harry L. Boardman, Riverside.
J. W. Curtis, San Bernardino.

OFFICERS OF THE BOARD

Mattison B. Jones, President - - Los Angeles
722 Merchants' National Bank Building

J. H. Merriam, Vice-President - - Pasadena

J. W. Curtis, Secretary - - - San Bernardino
No. 680 E Street

J. Margaret Swope, Assistant Treasurer, San Bernardino

Geo. P. Cortner, Business Manager - - Redlands

EXECUTIVE COMMITTEE

W. H. Fowler, Chairman.
Mattison B. Jones.
Geo. D. Knights.
J. H. Merriam.
J. W. Curtis.
L. A. Boadway.
J. H. Strait.

Faculty

VICTOR LEROY DUKE, A. M., LL. D., President.
A. B., Shurtleff College, 1897, A. M., 1903. University of Chicago Summer Sessions, 1898, 1899, 1900, 1901 and 1903.
LL. D., Shurtleff College, 1917.
University of Redlands, 1909—.
Residence, 155 E. Cypress Avenue.

A. HARVEY COLLINS, A. M., Registrar.
Professor of History.
A. B., Indiana University, 1890. University of California Summer School Sessions, 1903, 1906.
A. M., University of Southern California, 1912.
University of Redlands, 1909—.
Residence, 416 West Olive Avenue.

JAMES W. KYLE, A. M.
Professor of Ancient Languages.
A. B., Denison University, 1894. A. M., University of Chicago, 1900.
Student Royal Museum, Berlin, 1898. Member of American School of Classical Studies, Athens, Greece, 1898-99.
University of Redlands, 1909—.
Residence, 621 University Street.

*S. GUY JONES, B. S.
Professor of Chemistry.
B. S., Denison University, 1903.
University of Redlands, 1909—.
Residence, 541 Fourth Street.

---

*Absent on leave, 1918-19, in Y. M. C. A., overseas service.

GEORGE ROBERTSON, A. B.

Professor of Biology and Geology.
A. B., McGill University, Montreal, 1881. Graduate Congregational College, Montreal, Canada, 1882.
University of Redlands, 1911—.
Residence, 256 Alvarado Street.

HERBERT E. WISE, A. M.

Professor of Philosophy and Education.
A. B., University of Manitoba, 1892. Graduate of Newton Theological Institution, 1897. A. M., University of Manitoba, 1915.
University of Redlands, 1910—.
Residence, 775 Linda Vista Ave.

EDITH ABIGAIL HILL, A. B.

Professor of Modern Languages.
A. B., Leland Stanford Junior University, 1903. Student at Sorbonne, Paris, 1903. Student University of Berlin, 1904. Student in Mexico, 1905. Student University of Madrid, 1909-10.
University of Redlands, 1910—.
Residence, 14 Clifton Avenue.

HERBERT EUGENE MARSH, B. S.

Professor of Physics and Engineering.
B. S., Michigan Agricultural College, 1908.
University of Redlands, 1912—
Residence, 618 East Fern Avenue.

EGBERT RAY NICHOLS, A. M.

Professor of English Literature.
Ph. B., Franklin College, 1907. A. M., Harvard University, 1909.
University of Redlands, 1913—.
Residence, 814 Campus Avenue.

HOWARD C. TILTON, A. M.
Professor of Political and Social Science.
A. B., Shurtleff College, 1895. A. M., Brown University, 1897.
University of Redlands, 1914—.
Residence, 614 East Fern Avenue.

*MARY LOUISE TODD, A. B.
Associate Professor of English.
A. B. University of Colorado, 1910. Graduate Student University of Southern California, 1914.
University of Redlands, 1914—.
Residence, 109 Stillman Avenue.

EMMA KIRTLAND WHITON, A. M.
Professor of Mathematics.
A. B., Colorado College, 1909. A. M., University of California, 1916.
Teaching Fellow University of California, 1916-17.
University of Redlands, 1918—.
Residence, 418 Division Street.

MARK WALKER, B. S.
Professor of Chemistry.
B. S. University of Arizona, 1897.
Consulting Chemical and Metallurgical Engineer.
University of Redlands, 1918—.
Residence, Deming Hotel.

LUCY LOCKWOOD HAZARD, A. M.
Associate Professor of English.
A. B. University of Redlands, 1916. A. M. University of California, 1917.
University of Redlands, 1918—.
Residence, 522 Cajon Street.

*Absent on leave, 1918-19.

ELEANOR SYKES, A. B.

Instructor in Modern Languages.
A. B. Syracuse University, 1918
University of Redlands, 1918—.
Residence, Bekins Hall.

FRANCIS MIRIAM SCOTT, B. S.

Instructor in Mathematics and Engineering.
B. S. University of Redlands, 1916.
University of Redlands, 1918—.
Residence, Terracina Boulevard.

ASHEL CUNNINGHAM, L.L. B.

Director of Physical Education.
L.L. B. Indiana University, 1912.
University of Redlands, 1913—.
Residence, College Avenue.

ELEANOR A. SYMMES, A. B.

Librarian.
A. B. University of Redlands, 1917. Certified Librarian by California State Board of Education, 1918.
University of Redlands, 1914—.
Residence, Redlands.

College of Fine Arts

VICTOR LEROY DUKE, A. M., LL. D., President.

CHARLES EDWARD HUBACH, Dean of the College of Fine Arts.

Professor of Voice, Bel Canto and General Repertoire. Director of Choral Society.

Graduate New England Conservatory of Music.
Student of Sbriglia, Paris.
Student of Barracchia, Florence, Italy.
University of Redlands, 1914—.
Residence, Deming Hotel.

OSKAR BENJAMIN SEILING, Head of Violin Department.

Professor of Violin.

Director and First Violinist Brahms Quintette, Los Angeles.
University of Redlands, 1914—
Residence, Sierra Madre, California.

OLGA STEEB, Head of the Piano Department.

Professor of Piano.

Private student Los Angeles, California.
Special private student, London, England, and other European musical centers.
University of Redlands, 1915—.
Residence, University.

KATE WATKINS, Head of Art Department.

Instructor in Drawing, Painting, Modeling, Lecturer in History of Art.

Student of J. Carrol Beckwith (Art League) and Kenyon Cox of New York. Student of the Julian Studios and Henry Mosler, Paris, France.
University of Redlands, 1913—.
Residence, University.

FLORA CORDELIA COOK, Mus. Bac.

Instructor in Piano.

Instructor in Harmony and History of Music.

Graduate of Lake Erie College Conservatory, 1903.
Bachelor of Music, University of Redlands, 1914.
University of Redlands, 1913—.
Residence, Terracina Blvd.

FRANCES ANNETTE CARTLIDGE.

Instructor in the Dunning System of Music.

Instructor in Piano and Public School Music.

Graduate of Dunning System, Buffalo, N. Y., Student of Mrs. Jessie Gaynor, Mrs. Gertrude B. Parsons and others.
University of Redlands, 1915—.
Residence, 720 Cedar Avenue.

HOUSE MOTHERS

MRS. OLA FINLEY University of Redlands, 1918—.	Bekins Hall
MISS MARY SCHWINN University of Redlands, 1919—.	Reavis Hall

STANDING COMMITTEES

1919-20

The President is Ex-Officio a member of all Committees

Athletics—
S. Guy Jones, H. E. Marsh, Ashel Cunningham.

Credentials—
A. H. Collins, J. W. Kyle.

Christian Work—
H. C. Tilton, H. E. Wise, M. L. Todd.

Discipline—
H. C. Tilton, H. E. Wise, E. K. Whiton.

Dormitories—
H. E. Marsh, M. L. Todd, George Robertson.

Grounds—
J. W. Kyle, Geo. Robertson, Business Manager Geo. P. Cortner.

Library—
H. E. Wise, H. C. Tilton, E. R. Nichols and W. H. Fowler, from Board of Trustees.

Museum—
George Robertson.

Prizes—
J. W. Kyle, H. E. Marsh, M. L. Todd.

Publications—
A. H. Collins, E. R. Nichols, E. K. Whiton.

Schedule—
S. G. Jones, A. H. Collins, E. A. Hill.

Student Activities—
E. A. Hill, A. H. Collins, J. W. Kyle.

Events of the Past Year

June 8th, Saturday—Anniversary of College of Fine Arts, Department of Music, 8:00 p. m.

June 9th, Sunday—11:00 a. m., Baccalaureate Sermon by Rev. J. Harvey Deere.
7:00 p. m.—Address before the Christian Associations by Rev. George A. Francis.

June 10th, Monday—7:30 to 10:00 p. m., Students' Annual Zanja Fiesta.

June 11th, Tuesday—10:30 a. m., Semi-Annual Meeting of the Board of Trustees.
11:00 a. m.—Alumni Meeting and Banquet.
3:00 p. m.—Class Day Exercises of the Class, 1918.
8:00 p. m.—Reception by President and Mrs. Duke.

June 12th, Wednesday—Commencement, 10:30 a. m. Address by Rev. John Snape, D. D.
Conferring of Degrees by the President of the University.
12:15—Eighth Annual College Dinner.

During the present year, 1918-19, the University has been favored with a number of Assembly addresses and entertainments, as follows:

May 7th, 1918—Dr. A. W. Rider, Secretary of American Baptist Missionary Society for the Western United States.
Call to Man Power.

May 16th, 1918—Dr. F. O. Belden, Pastor of First Baptist Church, San Diego, California.
Essential Things of Life.

November 4th, 1918—Gail Seaman, Secretary of Y. M. C. A. for Colleges.
Experiences in Y. M. C. A. work in France.

November 25th, 1918—Dr. John Snape, Pastor First Baptist Church, Hollywood, California.
Epitaph of the Kaiser.

December 16th, 1918—Dr. O. P. Gifford, Brookline, Mass.
The Adjustment of Men to Democracy and the World.

February 17th, 1919—
Dust and Diety.

April 7th, 1919—
The Place of the Church in Civilization.

April 14th, 1919—
Nears Don't Count.

January 6th, 1919—Reverend H. P. Fitch, Long Beach, California.
My Mother's Favorite Scripture.

January 13th, 1919—Rev. J. C. Robbins, Foreign Secretary of American Baptist Missionary Society.
America's Present World Leadership.

February 24th, 25th, 26th and 27th, 1919—The Honorable J. Stitt Wilson, Berkeley, California.
A Series of Addresses on Social Democracy.

March 5th, 1919—Dr. F. A. Agar, Efficiency Advisor of Northern Baptist Convention.
Stewardship.

March 6th, 1919—Hugh Moran, Y. M. C. A. Army Service in Siberia.
Spiritual Elements in the Reconstruction of Russia.

March 12th, 1919—
Christian Socialism.

March 14th, 1919—
Women's Glee Club of the University of Redlands.

April 4th, 1919—
Men's Glee Club of the University of Redlands.

April 30th, 1919—
Dean C. E. Hubach, Olga Steeb and Oskar Seiling, of the Faculty of the College of Fine Arts, University of Redlands.
An Evening of Music.

University of Redlands

HISTORICAL

On the seventh day of December, 1906, the Baptists of Southern California, in Convention assembled in Berean Hall, Los Angeles, resolved to found and foster a high grade Christian college. A committee of twenty-one representative men was appointed to select the location for the college, manage the campaign for a Founding Fund and organize the institution.

The canvass for a Founding Fund of $300,000 was begun the first of September, 1907, and so hearty was the response that at the Convention held in Los Angeles in January, 1909, the Committee was able to announce the assured success of the movement.

The location of the college at Redlands was due both to the acknowledged fitness of the city as a home for such an institution and the generous offer of a campus of forty acres and $100,000 toward the Founding Fund.

To the forty acres given by Redlands for a campus has since been added twenty-three acres, including the beautiful University Hill, now occupied by the Administration Building and the Fine Arts Hall.

With the $300,000 Founding Fund and the beginning of the first building the work of actualizing the institution may be said to have commenced.

The University of Redlands was incorporated under that title in 1907.

On September 29th, 1909, less than three years from the time of the inception of the movement, the institution threw open its doors to the public.

The College of Liberal Arts was organized and continued thru the first semester of 1909-10 in the Bible School rooms of the First Baptist Church of Redlands.

In February, 1910, the ample Administration Building was occupied.

From the beginning a College of Fine Arts has been a prominent feature of the plans for the University. This work for the first year, 1909-10, was largely carried on at the private studios of the professors and instructors. From 1910 to 1914 the work of the Fine Arts College was housed in Bekins Hall. The present Fine Arts Building, which stands on University Hill and to the east of the Administration Building, was occupied in September of 1914.

LOCATION

Redlands, the home of the University, is a beautful city of 11,000 inhabitants, situated sixty-six miles east of Los Angeles, in the heart of the largest orange growing district in the world, and close to the eternal mountains, whose massive strength gives courage, whose grandeur gives inspiration, whose repose gives rest. The city is located at an altitude of about 1400 feet, which gives it as nearly an ideal climate as it is possible to find, sometimes touching the frost point in winter, warm in summer; but, even in the warmest summer months, always having cool and restful nights.

Flowers blossom all the year round and the finest fruits are always in season. The class of people who have made Redlands what it is, coming from all parts of the country, is thoroly cosmopolitan and is closely in touch with the latest thought and endeavor of the world. Redlands is a church-going city, and with this sentiment thus dominant there is no saloon within her borders. In short, Redlands is a city of high moral tone and culture, justly deserving the name that has been given to it, "The Athens of Southern California." Steam and trolley trains connect Redlands with Los Angeles and other nearby towns, the trip to Los Angeles taking two and one-half hours, thru the orange groves and vineyards of the garden spot of the United States, Redlands can be reached directly via either the Southern Pacific or the Santa Fe railroads or the Pacific Electric. It is also reached by the Salt Lake Route thru San Bernardino and Pacific Electric to Redlands.

The location of this place for an institution of higher learning, such as the University of Redlands, presents unusual opportunities for an ideal home life to parents desiring to have their children live at home while pursuing a college course.

CAMPUS

In a beautiful valley under the shadow of the "Everlasting Hills," the campus of the University of Redlands surely has an inspiring setting. Its sixty-three acres, under the skill of a landscape architect, aided by a beneficent climate, has in a short time become a spot of rare beauty. With stately architecture to grace its greensward, winding drives, glowing flowers, and wrapt in the indefinable atmosphere which adds so much romance and charm to our Western land, the place itself inspires with the highest ideals the sons and daughters who throng its halls of learning.

THE BUILDINGS

ADMINISTRATION

The main structure of the whole University scheme, the Administration Building, was completed in 1910. It is massive and monumental in character, a pure example of classic architecture, of the mixed Ionic order. The exterior is faced with gray granite and with its massive columns and red tile roof harmonizes admirably with its majestic setting of mountain and valley.

The building contains the offices of the President, Registrar and Treasurer, and at present accommodates the recitation and laboratory work of the College of Liberal Arts, embracing some sixteen recitation rooms, chemical and physical laboratories, lecture rooms, library, Y. M. and Y. W. C. A. rooms, locker rooms, etc. The entire equipment is of the highest order, especial attention being paid to the ventilation and sanitary requirements.

FINE ARTS BUILDING

To the east of the Administration Building and forming the second of the group of three buildings proposed for University Hill, stands the Fine Arts Building. Its handsome lines harmonize with those of the Administration Building, and the others on the campus.

The Vocal, Piano, Violin, and Art Studios, as well as the class rooms, practice rooms, and musical library, are in this structure.

The building was largely the gift of Mrs. Julia A. Libby of Santa Ana.

BEKINS HALL

Bekins Hall, the gift of Mr. and Mrs. Martin Bekins, of Los Angeles, was completed and occupied in October, 1910. The building is classic in architecture and absolutely fireproof in construction. It contains rooms for the accommodation of fifty-five young women, besides parlors, dining hall and kitchen, and a specially equipped laundry. Many of the rooms are connected with private baths. Ample verandas and a roof garden foster outdoor life.

REAVIS HALL

Reavis Hall is named in honor of the late Benjamin H.

Reavis, of Orange, Cal., whose generous gifts to the University have more than justified the naming of the young men's dormitory.

The Hall is operated by the University Co-Operative Club, a student organization. It is located on the campus at the foot of University Hill near the athletic field and the men's gymnasium. Accommodations and board superior in every respect to those obtainable elsewhere, may be secured here.

The Club elects its own officers and operates co-operatively upon an expense basis with a house-mother and general manager at the head. The cost per month is much less than that at which good board and room may be secured any where else in Redlands.

As the capacity of the dormitory is limited, a deposit of five dollars is required for the reservation of a room. This deposit will be deducted from the expenses of the first month.

Further information may be secured by addressing the Secretary-Treasurer of the University Co-Operative Club, Reavis Hall, Redlands, California, or the University.

MEN'S GYMNASIUM

At the northeast corner of the Campus and beyond the athletic field stands the new Gymnasium for men. It consists of two units; the first containing showers, dressing rooms and lockers, the second and adjacent to the first is the gymnasium proper with a floor space 40 feet by 45 feet for measurements, apparatus and rooms for visiting teams; a game and calisthenic floor 40 feet by 75 feet, also seating for about 400 spectators. All well lighted and ventilated and provided with modern equipment.

WOMEN'S GYMNASIUM

Just south of the Fine Arts Building stands the gymnasium for women. The building contains dressing rooms, sanitary showers and a gymnasium floor space 32x60 feet. The building is provided with a complete equipment for calisthenics and light gymnastics.

ASSEMBLY HALL

Among the shady trees bordering the Zanja is the new Assembly Hall, erected in the fall of 1918. The hall is provided with stage and dressing rooms, and has a seating capacity sufficient to accommodate the increasing Student Body for a time.

ORGANIZATIONS

Associated Student Body

The Associated Student Body is composed of all the students matriculated in the two colleges of the University. Its officers are chosen by the student body from their own number. Regular meetings are held each week to deal with matters of general interest to all students.

Pi Kappa Delta

The University of Redlands has a chapter of Pi Kappa Delta, a forensic honor society organized among colleges of the Middle West in January, 1913. All orators and debaters who represent the institution in intercollegiate contests are eligible to membership and are elected upon application. The organization confers an honorary key which is jewelled to show the achievement in forensics attained by the wearer.

CHRISTIAN ASSOCIATIONS

Branches of the College Departments of the Young Men's Christian Association and the Young Women's Christian Association are doing active and effective work. Each association holds a weekly meeting. Representatives from the societies are sent to the Bible and General Conferences for Colleges. The good effect of these Christian organizations is very marked in the daily life of the student body. Every encouragement and assistance is given these organizations by the faculty.

COLLEGE GLEE CLUBS

The Men's Glee Club of the University in its third year of organization has grown in popularity. A successful trip was made thru portions of Central California during the Spring vacation.

The Women's Glee Club of the University, organized in 1917, comprises some forty splendid voices. With the Dean of the Department of Music the Club gave several successful entertainments thruout Southern California during the spring vacation.

LE POSTE D' ECOUTE

The literary societies for women, formerly in existence, have been merged under the name Le Poste d' Ecoute, the listening posts from which information concerning the enemy is sent back thru the communicating trenches.

According to the name, the objects of this organization are to promote interest and alertness in all cultural lines and to promote literary, social and patriotic standards among the women of the University.

Membership is open to the women of the University who maintain a high standard of excellence in their work.

SPANISH CLUB

During the year 1918-19 a Spanish Club was organized under the direction of Professor Hill and Miss Sykes. The Club meets once a month and is designed to give practice and fluency in using the language.

COLLEGE PUBLICATIONS

The University of Redlands publishes a quarterly bulletin, one number of which is the annual catalog. The other three are devoted to special studies and reports of officers and other matters of importance.

STUDENT PUBLICATIONS

The Campus, a weekly paper published by the Associated Student Body through an elected staff, is an exponent of the student life and activities of the University.

LA LETRA

La Letra, The University Annual, is published by a special staff chosen by the student body and is devoted to the features of the University life for the year.

The Annual comes from the press about June First of each year, and is eagerly awaited by all those connected with the University.

COLORS

The official colors of the University of Redlands are Maroon and Silver Gray.

ATHLETICS

The University of Redlands recognizes the value of athletics in the college curriculum. Athletics is the vitalizing force of "College Spirit," and hence of value to college students in general. Athletics, when properly coached and controlled, is of great value to the participant for not only is the body developed, the eye made keener and the judgment quickened, but, if allowed so to do, the broader and finer qualities of mind and of soul, even, find expression and receive impulses and strength. Therefore athletics occupies the usual important place in the schedule.

The athletic park is enclosed and contains a 220-yard straight-away and a circular four-lap track, both in excellent condition. Inside the circular track the football and baseball fields are laid out.

College of Liberal Arts

ADMISSIONS

Every student, unless he brings a certificate of proficiency from an accredited school, shall before entering any class in the collegiate department, be examined upon the following subjects required for entrance:

In the College of Liberal Arts the University of Redlands offers courses leading to the Bachelor of Arts and the Bachelor of Science degrees with the following:

FIXED ENTRANCE REQUIREMENTS

Leading to Bachelor of Arts

English	2 units
A Foreign Language	2 units
Mathematics, Algebra and Plane Geometry	2 units
History	1 unit
Natural Sciences	1 unit
(This must be a laboratory course)	
Additional	4 units
(From some combination of above or may include drawing)	
Electives	3 units
Total	15 units

Leading to Bachelor of Science

	English	2 units
	A Foreign Language	2 units
	Mathematics	3 units
	History	1 unit
(1)	Physics	1 unit
(1)	Chemistry	1 unit
(1)	Additional Science	1 unit
	Additional from above, or may offer Drawing	1 unit
	Electives	3 units
	Total	15 units

NOTE:—The candidate must have chosen his work so as to present at least 4 units of work which is generally regarded as belonging to the 3rd and 4th years of the High School.

(1.) A student presenting only two of these three units, but an extra unit in either Mathematics or Foreign Language, will be entered without condition, but must elect the equivalent science course in the College. This shall not reduce the total amount of work required in these subjects for graduation.

In the list of subjects enumerated above the term unit is employed to signify the amount of preparatory work done in a given subject during a school year.

ADMISSION BY CERTIFICATE

Graduates of approved high schools or academies will be given credit for any of the subjects listed below in which they are recommended. Blanks for such recommendation will be furnished on application to the University, and it is expected that all applicants for admission, without examination, will use them.

In the list of admission subjects enumerated below the term unit is understood to represent five recitations per week of forty-five minutes each, four recitations per week of sixty minutes each throughout one school year, or equivalent. A detailed description of the essential subjects may be found in the printed lists of the American College entrance requirements.

1.	English, Elementary	2
2.	English, Advanced (3rd yr.)	1
3.	English, Advanced (4th yr.)	1
4.	Algebra, Elementary	1
5.	Algebra, Intermediate	½
6.	Plane Geometry	1
7.	Solid Geometry	½
8.	Plane Trigonometry	½
9.	Ancient History	1
10.	Mediaeval and Modern His.	1
11.	English History	1
12.	History and Gov't of U. S.	1
13.	Economics	½, 1
14.	Latin, Elementary & Cæsar	2
15.	Cicero & Latin Composition	1
16.	Vergil & Latin Composition	1
17.	Greek, Elem. & Xenophon	1
18.	Homer and Greek Comp.	1
19.	German, Elementary	2
20.	German, Intermediate	1
21.	German, Advanced	1
22.	French, Elementary	2
23.	French, Intermediate	1
24.	French, Advanced	1
25.	Spanish	2
26.	Physics	1
27.	Chemistry	1
28.	Botany	1
29.	Zoology	1
30.	Physiology	1
31.	Physical Geography	1
32.	General Science	1
33.	Free-hand Drawing	½, 1
34.	Mechanical Drawing	½, 1
35.	Music	½, 1
36.	Vocational Subjects	1, 2, 3

Half units will be accepted only when presented in addition to a whole unit in the same subject or in closely allied subjects, such as economics and history, except in industrial arts, agriculture, music, etc., as indicated above.

One year of a foreign language will not be accepted until supplemented by an additional year of the same language in the University of Redlands.

ADVANCED STANDING

If a student upon entering the University can present more than sixteen units, he may apply for advanced standing on the excess of units above that number.

The granting of advanced standing, in any department, is dependent upon the recommendation of the head of that department, who also reserves the right to examine the applicant, in the subjects in which advanced credit is sought, before making any recommendation.

Credit without examinations for work done in other institutions will be granted only upon receipt of a satisfactory certificate mailed to the University of Redlands by the proper official of the institution in which the work was done.

A student from another institution of equal scholastic rank may be admitted to advanced standing in the University upon presentation to the committee having charge of credits satisfactory evidence of having completed the work claimed, together with a certificate of honorable dismissal.

Students failing to satisfy any of the above requirements for admission may be received on condition, but such condition must be removed before said students are admitted to the Junior Class.

MATRICULATION AND REGISTRATION

Each student desiring to register is required to present himself to the President, who will advise with him and direct him to the registration committee and the Registrar.

Students are urged to register on the designated registration days. Absences from classes are counted from the day on which instruction begins. The student, within one week after registration day or at once, in case of late registration, must obtain from the Treasurer a card of admission to classes. No registration is complete until fees due the institution are paid or arranged for. Any student wishing to discontinue a course or in any way change his registration will proceed as in the original registration.

Students enrolled for the first semester and registering for the second semester will be expected to register between Monday, January 5th, and Saturday, January 24th. An extra fee of one dollar ($1.00) will be charged the student whose registration is not complete on or before January 24th.

GENERAL REQUIREMENTS AND REGULATIONS

Candidates for degrees will be required to recognize the sequence of courses in selecting their work, unless excused by the Faculty.

Persons not candidates for any degree may be admitted to the University as special students, provided they are of mature age and give the Faculty satisfactory evidence that they are properly qualified to do work creditably and with profit.

Special students may select their studies without reference to the sequence of courses, but otherwise are subject to the general regulations governing the student body. Such students may at any time become candidates for degrees by conforming to the regulation requirements.

No student who has registered for regular work can change his status to that of a special without permission of the Faculty.

A student withdrawing from the University before the work of any semester has been completed shall thereby forfeit all credits for that semester; but at the discretion of the instructor such student, upon returning to college, may resume a subject at the point dropped and carry it to completion.

No regular student is allowed to carry more than 18 hours or less than 12 hours, except by special action of the Faculty.

Those who represent the University in inter-collegiate activities, or in other capacities, or who are managers or editors of student publications or officers of the Associated Student Body shall be regular students and doing a passing grade of work in at least 12 hours.

Each student must take a final examination before receiving credit in any course, except that in the second semester a student ready to receive a degree shall not be required to take an examination in those courses in which his daily grade for that semester is 90 per cent or above.

SCHOLARSHIP GRADING

The following system of grading is used in the University of Redlands:

A	denotes	a good grade of work.
B	"	average work.
C	"	passing, but poor.
D	"	conditioned.
E	"	failed.

A condition in any course may be removed before the course is again offered in accordance with the requirements made by the teacher concerned. A fee of $2.00 is charged for each extra or special examination, except that if a student is forced to be absent from all the examinations of the semester, the fee for the entire number shall not exceed $5.00.

SCHOLARSHIPS—STUDENT AID

A number of scholarships have been endowed by friends of the University, the income derived from such funds being devoted to defraying the tuition fees in the College of Liberal Arts of the students to whom they are assigned. These scholarships are awarded to those students who are in need of aid in securing a college education. In the awarding of these scholarships, the grade of work which has been done and is being done by the student is taken into consideration. A student receiving such aid is expected to conduct himself in a way which is for the best interest of the institution. He may be asked to render some light service to the institution which will not interfere with his studies.

The University aids some students by work about the campus and in the halls and co-operates with students in securing work about the city. Students who are thus helped are expected to give value received and to co-operate in maintaining a good spirit in the University.

Inquiries regarding this matter should be addressed to the University of Redlands.

DORMITORIES, ROOM AND BOARD

In Bekins Hall for Women accommodation is provided for a number of students. A thoroly competent matron is in charge of the dormitory, giving assurance of adequate control. In the hall it is the purpose of the administration to approximate the home life as closely as possible.

Reavis Hall likewise provides for a number of the men.

Students are expected to room in the college dormitories unless there are good reasons for their doing otherwise.

Students are allowed to room only in places approved by the Faculty. To this end a list of approved places is kept in the college offices. This list should be consulted by a student before he engages a rooming place. Places are not approved unless a responsible householder is in charge. General boarding houses are not approved and it is desirable that not more than six students room and board in any one place off the Campus. Groups of students are not allowed to rent a house for living quarters.

Any student changing his living place is expected to consult with the office concerning such change.

For cost of rooms and board see Expenses.

EXPENSES

It is believed that the expenses at this institution are as low as is consistent with the high character of the work done. The following schedule will serve to indicate the principal items:

Tuition per semester, payable in advance:	
Colleges of Liberal Arts	$48.00
Matriculation Fee:	
College of Liberal Arts and Fine Arts	$5.00
Registration Fee per Semester:	
College of Liberal Arts and Fine Arts	$2.00
Laboratory Fees:	
Chemistry, for each course, per semester	$8.00
Biology, per semester	$1.00
Physics, for each course, per semester	$5.00

A deposit of five dollars ($5.00) is required in Chemistry to cover breakage. This deposit, less cost of breakage, is refunded at the end of the year.

No breakage deposit is required in Physics, but an account is kept of all breakages and a charge is made therefor.

Students carrying not more than five hours of work will be charged one-third of the regular tuition fee; those carrying from six to ten hours inclusive, will be charged two-thirds of the regular fee, and those carrying more than ten hours will pay the full fee.

Students preparing for the ministry and children of ministers and missionaries will be granted a discount of 50 per cent in tuition fees for regular work in the College of Liberal Arts.

Spcial attention is called to the fact that the charge for tuition includes gymnasium, library, graduation and all incidental fees other than the matriculation and registration fees, and those connected with laboratory work.

No student may attend classes for more than one week after the regular registration day without having made satisfactory arrangements with the treasurer concerning all monies due the University.

DORMITORY EXPENSES

The larger number of the dormitory rooms are arranged for two in a room, being furnished with two beds and in some cases having two closets.

The beds in Bekins Hall are single and provided with mattresses 6 feet 2 inches, by 3 feet, and pillows 23 by 30 inches. For dimensions of pillows and mattresses in Reavis Hall, address The House Mother.

Each student is expected to furnish bed covers, linen and towels.

Rooms and Board at Bekins Hall:

Two in a room, per month	$27 each
Two in room with bath adjoining, per month,	$30 each

When paid by the semester in advance a discount of 3 per cent is allowed. Of this sum $20 per month is reckoned for the board and the balance is room rental.

Expense in Reavis Hall:

For a statement of expense for living in Reavis Hall, see page 24.

The dormitory will be closed during the Christmas vacation from Saturday evening, December 20th, to Saturday, January 3rd, 1920, and during the Spring vacation from Saturday evening, March 27th, to Saturday evening, April 3rd, unless a number of students desire to remain, in which case those students paying the semester rate will be charged an additional fee for their accommodations during these periods.

Rooms in the dormitories may be reserved at any time for 1919-20 by a deposit of five dollars with the University. This deposit will be deducted from the charges of the first month. This deposit will not be refunded if reservation is cancelled after August 31st.

The necessary expenses, including room, board, tuition, books and laundry, will average about $350 or $375 for the year.

LIBRARY

The library of 8150 volumes and several thousand unbound magazines and pamphlets, contains especially well selected works on all subjects included in the curriculum. This number includes about 3000 volumes received as a permanent loan from California College, Oakland, Cal. Many valuable books and sets have been given by generous friends of the University.

Moreover, through the courtesy of the A. K. Smiley Public Library of Redlands, with 32,000 volumes, the University Library is a depository, thruout the college year, for such books as the different departments may from time to time require.

A music library, largely a loan from the private library of Dean Hubach, is maintained in the Fine Arts building.

PRIZES

The following prizes have been offered to the students of the University for the year 1918-19 to be awarded on Commencement Day:

1. For the best original oration delivered by a regular student of the University of Redlands at the annual Oratorical Contest, on the third Friday of January, a gold

medal or a prize of $25 is offered by the President of the Board of Trustees of the University, Mr. Mattison B. Jones, of Los Angeles.

2. For the best extempore speech delivered by a regular student of the University at the annual Contest in Extempore Speaking on the first Friday in December, a prize of $25 is offered by Mr. W. H. Fowler, of Los Angeles.

3. For general efficiency in college work, including scholarship and the various student activities a first prize of $10 and a second prize of $5 is offered by Prof. J. W. Kyle of the University.

ACCREDITING

The work of the University of Redlands will be accepted by the University of California or Leland Stanford, Jr., University for admission to Sophomore, Junior, Senior or Graduate standing.

Harvard University and Columbia University have accepted our graduates to graduate standing without condition, as candidates for the Master's Degree.

IN THE SERVICE OF THEIR COUNTRY

The University of Redlands is justly proud of the services her students and alumni rendered their country.

That the sons and daughters of the College responded to their country's call in numbers far beyond a normal proportion is attested by the large service flag which adorns the wall of the Chapel Hall.

In addition to the enrollment in Student Army Training Corps of 131 men, alumni and underclassmen early offered themselves for service.

An unusually large proportion of these won special recognition in commissions and assignments to posts of high responsibility.

The golden stars on the flag show that these men were willing to make the supreme sacrifice for the cause of democracy.

Among the students in College, men and women alike, the same spirit of sacrifice was shown in the buying of bonds and W. S. S. and in Red Cross work.

The women students of Bekins Hall, in addition to individual purchases, collectively purchased Liberty Bonds and donated them to the endowment fund of the University.

REQUIREMENTS FOR GRADUATION

No student shall be permitted to graduate from the College of Liberal Arts of the University who has not credit for at least 124 hours including two years of physical education and who has not taken at least one year of the regular work at the University.

The required work leading to the different degrees is as follows:

BACHELOR OF SCIENCE

(1)	English	6-9 hours
	Mathematics	12 hours
	History	6 hours
	Sociology or Economics	3 hours
	Ethics	3 hours
	Theism	3 hours
	Psychology	3 hours
	Modern Languages	12 hours
	Physics	8 hours
	Chemistry	8 hours
	Additional Science	6 hours
	Physical Education	4 hours
	Total Required	74-77 hours
	Electives	50-47 hours
	Total	124 hours

BACHELOR OF ARTS

(1)	English	6-12 hours
	Mathematics	6 hours
(2)	History	6-10 hours
	Sociology or Economics	3 hours
	Ethics	3 hours
	Theism	3 hours
	Psychology	3 hours
	Science	8 hours
	Foreign Languages	6 hours
	Physical Education	4 hours
	Total Required	48-58 hours
	Electives	76-66 hours
	Total	124 hours

In addition to the above requirements for the Bachelor of Arts Degree, the candidate must satisfy the conditions for a major as defined below.

(1). Students who offer fewer than four entrance units in English will be required to take nine college hours in that subject for the B. S. degree and twelve for the A. B. degree.

(2.) Students who offer fewer than two entrance units in History will be required to take ten college hours in that subject.

At least thirty-six hours of the Junior and Senior years must be from courses classified as "Junior and Senior."

Every candidate for a degree is required to select a major and signify the same to the Registrar and the head of the department in which he selects his major. Such selection may well be postponed until the Sophomore year but not later than that time, without special permission.

As soon as a student has decided on a major he shall choose his minor in conference with the head of the department in which he has chosen his major.

A major shall consist of twenty-four hours in one department, from courses classified by that department as majors and at least twelve hours must be from courses classified as "Junior and Senior."

A minor shall consist of at least nine hours from courses which may be counted toward a major in any department.

Departments of Instruction

BIBLICAL STUDIES

Herbert E. Wise

Crawford Professor of English Bible and Cognate Studies

III. The Apostolic Age. New Testament Times; expansion of Christianity; distinguishing features of the Pauline Epistles-Galatians, Corinthians and Romans. Text, lectures, maps and reports.
Freshmen-Sophomore Course.
Two hours per week, first semester.

IV. Continuation of III.
Epistles of Paul's imprisonment; Epistle to the Hebrews; New Testament Canon.
Freshmen-Sophomore Course.
Two hours per week, second semester.

*V. and VI. Introduction to the Old Testament. A study of the origin, historical development, social messages, religious significance, and permanent value of the Old Testament.
Junior-Senior course.
Two hours per week, both semesters.

*Omitted in 1919-20.

BIOLOGY

Geo. Robertson, Professor

Courses III., IV., V., VI., VII, VIII., IX., X., XI. and XII. will be accepted as majors.

I. AND II. GENERAL BOTANY

The study will cover a general course in plant life, including lectures, recitations, laboratory and field work. The local flora is very rich in native and cultivated plants, suitable for study every month of the year. The work will be pursued along these lines (a) Morphological (especially the hystological phase), (b) Physiological, and (c) special Botany, a study of local flora, conditions of plant development, and a knowledge of the economic value of California plants.

Freshman-Sophomore course.

Three lecture hours and one laboratory period per week, both semesters.

III. and IV. GENERAL ZOOLOGY

A study of invertebrate animal life, the structure, development, classification and distribution. The study of insects will be specifically considered.

Especial attention is given to human physiology.

Sophomore-Junior course.

Three lecture hours and one laboratory period per week, both semesters.

*V. DENDROLOGY

The course in Forest Botany will consist of lectures, assigned reading and papers and laboratory work on trees and chapparal, their morphology, classification, geographical distribution, physiology, economic values and their relation to silviculture and arboriculture.

Prerequisite courses Biology I and II.

Sophomore-Junior course.
Two lecture hours and one laboratory period per week, first semester.

*VI. ANGIOSPERMS

The course deals with Phænogamic Botany, their ontogeny and Phylogeny, their orders, morphology, physiology, habits of growth, geological history, geographical distribution and their economic values. Southern California types will be especially considered, and Palentological plant forms.
Prerequisite courses III and IV.
Sophomore-Junior course.
Two lecture hours and a laboratory period per week, second semester, with the addition of special courses of reading.

*VII. ADVANCED INVERTEBRATE ZOOLOGY

Lectures, readings, laboratory work dealing with local invertebrate Zoology, their morphology, habits, distributions, life histories. Entomology will receive special attention.
Prerequisite courses III and IV.
Sophomore-Junior course.
Two lecture hours and one laboratory period per week, first semester.

*VIII. ADVANCED GENERAL VERTEBRATE ZOOLOGY

The course will embrace a study of vertebrate animal structure anatomy and physiology, development, habits, variation and distribution. Dissection of selected type specimens, and special courses of reading with assigned papers will be required. Attention will be given to hygiene.
Prerequisite course VII.
Sophomore-Junior course.
Two lecture hours and one laboratory period per week, second semester.

IX and X. Plant Anatomy and Physiology

The course will deal with Morphology of the plant cell, tissue and organs, also microscopic technique. The physiology of the cell and tissue of simple and complex plants and their ecology will be covered.

Prerequisites Biology I and II.

Sophomore-Junior course.

Two lecture hours and two hours laboratory work, both semesters.

XI and XII. Physiology and Hygiene

The course embraces the study of animal tissues, Epithelial, muscle, connective, nervous and their functions. The physiology and hygiene of the tissues, organs of respiration, digestion, nutrition, reproduction and of the nervous system will receive special attention.

Prerequisites Biology I, II, III, IV.

Sophomore-Junior course.

Three hours per week, both semesters.

* Note—Biology V. and VI. will alternate each year with Biology VII. and VIII Biology V. and VI. will be given in 1919-20.

CHEMISTRY

S. Guy Jones, Professor
Mark Walker, Professor

Courses III to XIV inclusive will be accepted as majors.

I-II. ELEMENTS OF CHEMISTRY

An introductory course intended for those who do not offer matriculation Chemistry.

Freshman-Sophomore course.

Two recitations and two laboratory periods per week, each semester.

III-IV. GENERAL INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS

An advanced course in general and theoretical chemistry, accompanied by a laboratory course in qualitative analysis. Analysis for positive ions, first semester. Analysis for negative ions and determination of the composition of natural and commercial products, second semester.

Prerequisite, Matriculation Chemistry or Chemistry I-II.

Freshman-Sophomore course.

Two recitations and two laboratory periods per week, each semester.

V-VI. QUANTITATIVE ANALYSIS

General methods of Gravimetric and Volumetric Analysis.

Prerequisite courses III and IV.

Sophomore-Junior-Senior course.

Three laboratory periods per week, each semester.

*VII-VIII. ORGANIC CHEMISTRY

A study of the compounds of Carbon. Laboratory work in the preparation of organic compounds and the study of their properties.

Prerequisite courses III and IV.
Junior-Senior course.
Two recitations and two laboratory periods per week, each semester.

IX-X. ADVANCED QUANTITATIVE CHEMISTRY
An advanced course in quantitative manipulations and determinations. The aim of the course is to obtain skill in quantitative manipulation and a knowledge of methods which will enable the student to quickly and easily become proficient in any of the several lines of quantitative analytical Chemistry.
Prerequisite, Chemistry V and VI.
Junior-Senior course.
Three laboratory periods per week, each semester.

XI-XII. INORGANIC PREPARATIONS
Study of the accepted methods of preparing the principal inorganic compounds.
Prerequisite courses III and IV.
Sophomore-Junior-Senior course.
Three laboratory periods per week, each semester.

*XIII-XIV. PHYSICAL CHEMISTRY
A course in the fundamentals of Physical Chemistry. The study of the properties of gases, liquids, solids and solutions. Also rate of chemical change and chemical equilibrium.
Junior-Senior course.
Two recitation-lecture periods and two laboratory periods per week, each semester.

* Chemistry VII-VIII and XIII-XIV are given during alternate years, XIII. and XIV. being given 1919-20.

ENGINEERING

Herbert E. Marsh, Professor

A complete technical course in engineering is not offered at present. The following subjects are for the benefit of those who desire to complete their preparation for this profession after having obtained a broad cultural basis for the same.

I AND II. MECHANICAL DRAWING

Use and care of drawing instruments, free-hand and mechanical lettering, exercises in projection and simple drawing. Drawing accurately to scale plans, elevations, and sections from student's own measurements and free-hand sketches of simple machine parts.
Prerequisite, Plane Geometry.
Three drawing periods per week, both semesters.
This course may not be counted toward a major.

III. TOPOGRAPHICAL DRAWING

This course is supplementary to Engineering VI, and consists of a study of the forms and practice in the execution of the conventional alphabets used in lettering topographical maps and the individual conventional signs.
Prerequisite, Mechanical Drawing.
This course may not be counted toward a major.
Sophomore course.
Two two-hour drawing periods per week, both semesters.

V AND VI. SURVEYING

The use, care and adjustment of the Surveyor's instruments. Field work; chain and tape surveying, transit, surveys, leveling, curves, etc.

Work of second semester, applied particularly to topographical surveying and mapping.
Sophomore course.
Prerequisite, Mathematics II.
Major course.
One recitation and two field (or drawing) periods per week, both semesters.

VII. DESCRIPTIVE GEOMETRY

A study of the principles which underlie orthographic projection, keeping in mind the importance of the ability to analyse a problem into its component parts and to reason from a given set of conditions to a required set of conclusions.
Major course.
Prerequisite, Engineering I and II.
Freshmen-Sophomore course.
Four drawing periods per week, first semester.

VIII. DESCRIPTIVE GEOMETRY

Continuation of VII., including single and double curved surfaces, shades and shadows, and the elements of perspective and isometric projection.
Prerequisite, Engineering VII.
Four drawing periods per week, second semester.

IX. APPLIED MECHANICS

A study of the laws of statics and dynamics and their application to the various branches of engineering.
Major course.
Prerequisite Physics III. and Mathematics IX. and X.
Junior-Senior course.
Four recitations per week, first semester.

X. GRAPHIC STATICS

A study of methods of representing forces graphically and the application of the same in the determination of stresses in structures.
Major course.
Prerequisite, Physics III, Engineering IX.
Junior-Senior course.
Recitation two hours and one drawing period per week, second semester.

XI. MECHANICS OF MATERIALS

A study of mechanics of materials including elastic and ultimate strength, and elastic ultimate determations, cases of simple stress, theory of beams, columns, and shafts; also a study of the principles of reinforced concrete and their application in various structures.
Major course.
Prerequisite, Engineering VIII.
Senior course.
Four recitations per week, second semester.

ENGLISH

Egbert Ray Nichols, Professor
Mary Louise Todd, Associate Professor
Lucy Lockwood Hazard, Associate Professor

The aim of the English department is three-fold: (1) to train the students in the art of self-expression or English Composition, written and oral; (2) to give the student definite knowledge of the greater writers of English literature; and (3) to enable the student to appreciate and estimate in a measure by the higher standards of criticism the value and wealth of English literature.

The work of the department has been grouped under three heads. This division of the department is the logical and natural one of (A) Courses in Composition, (B) Courses in English Literature, and (C) Courses in Public Speaking.

From six to twelve units of English are required of A. B., and from six to nine of B. S. students, the first six of which must be courses I. and II., which are prerequisites to all others, except V., VII., VIII., XXVII., XXVIII, XXIX., XXXI., XXXII., XXXIII., and XXXIV.

Twenty- four hours in addition to the hours in courses I., II., VII., and VIII are required of students majoring in English.

All courses in Composition and Literature may be counted toward a major in English unless otherwise designated. Only four hours of Public Speaking may be counted toward the English major. Courses III., IV., VII, VIII, and XII. are required of all English majors.

Students expecting to major in English should present a program of study to the head of the department before the beginning of the Junior year.

A.—COURSES IN COMPOSITION

I. and II. Rhetoric and Composition

A study of composition, oral and written, with regular practice in writing and speaking.
Freshmen course. May not be counted for major.
Three hours a week, both semesters. Mr. Nichols and Miss Todd.

III. and IV. Advanced Composition

A course in composition designed for those who wish to continue writing work beyond the Freshmen

year. A regular schedule of writing is followed. Longer themes are required and more attention is given to criticism than in English I. and II. English III. and IV. may be taken two years with full credit for each year. Required of English majors.
Sophomore-Junior course.
Three hours a week, both semesters. Mr. Nichols.

V. JOURNALISM
A course in the types of newspaper writing, reporting and news writing, editorial writing and feature writing, head lines and make-up, etc.
Elective.
Two hours, first semester. Mr. Nichols.

B—COURSES IN ENGLISH LITERATURE

VII. AND VIII. HISTORY OF ENGLISH LITERATURE
The development of English Literature from Beowulf to Wordsworth.
Required of students majoring in English. Either semester elective.
Freshman-Sophomore course.
Three hours per week, both semesters. Miss Todd.

IX. SHAKESPEARE
(a) An intensive study of three plays of Shakespeare, including Hamlet or Othello.
(b) A reading course in Shakespeare's plays up to the year 1600. A chronological order is followed. Collateral reading on the life of Shakespeare and his time.
Sophomore-Junior course.
Three hours, first semester. Mr. Nichols.

X. SHAKESPEARE
(a) As in English IX.
(b) A reading course in Shakespeare's plays sub-

sequent to the year 1600. A chronological order is followed. Thesis required.
Three hours, second semester. Mr. Nichols.

*XII. CHAUCER
A survey of the life and writings of Geoffrey Chaucer with special attention to the Canterbury Tales.
Junior-Senior course. Required of English majors.
Three hours a week, second semester. Mr. Nichols.

!XIII. EIGHTEENTH CENTURY POETRY
A study of representative poems of the classical and early romantic ages, including works of Pope, Gray, Collins, Blake, and Burns.
Junior-Senior course.
Three hours, first semester. Miss Todd.

!XIV. NINETEENTH CENTURY POETRY
The reading of selected poems from major poets, including Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson and Browning.
Junior-Senior course.
Three hours, second semester. Miss Todd.

*XV. ENGLISH PROSE OF THE EIGHTEENTH CENTURY
The reading of prose selected from the works of Defoe, Swift, Addison, Steele, Johnson, Goldsmith, and Burke.
Junior-Senior course.
Three hours, first semester. Miss Todd.

*XVI. NINETEENTH CENTURY PROSE
A study of selected masterpieces with special emphasis upon the works of Lamb, DeQuincey, Macaulay, Carlyle, Arnold, and Stevenson.
Junior-Senior course.
Three hours, second semester. Miss Todd.

*XVII. AND XVIII. PROSE FICTION

The first semester is devoted to the history and development of the novel, and the second semester to the study of the technique and theories of prose fiction. The student is required to make frequent oral reports and one written report each semester. Eighteen novels from at least six different authors must be read to complete the course.
Junior-Senior course.
Three hours, both semesters. Mr. Nichols.

!XIX. TENNYSON

A study of the life and writings of Alfred, Lord Tennyson. Thesis required.
Junior-Senior course.
Three hours, first semester. Mr. Nichols.

!XX. BROWNING

A study of the life and writings of Robert Browning. Thesis required.
Junior-Senior course.
Three hours, second semester. Mr. Nichols.

*XXI. WORDSWORTH

A study of Wordsworth's poems, including a consideration of his poetic theory and practice.
Junior-Senior course.
Three hours, first semester. Miss Todd.

*XXII. MILTON

A study of the life and writings of Milton, with special emphasis upon Paradise Lost.
Junior-Senior course.
Three hours, second semester. Miss Todd.

*XXIII AND XXIV. HISTORY OF DRAMA

A study of the rise and development of English drama, its relations to ancient and continental

drama, of stage conditions from mediaeval days to the present, including outside reading in miracle, morality and mystery plays, interludes, Elizabethan, Restoration, 18th Century and Victorian Drama. Thesis required.
Junior-Senior course.
Three hours, both semesters. Mr. Nichols or Miss Todd.

!XXV. MODERN DRAMA

A survey course in Modern Continental Drama with outside reading and reports, including Ibsen, Bjornson, Strindberg, Maeterlinck, Rostand, Brieux, Hauptman, Suderman, Schnitzler, Echegaray, d'Annunzio, and many others.
Junior-Senior course.
Three hours, first semester. Mr. Nichols.

!XXVI. MODERN DRAMA

A survey course in Modern English, Irish, and American Drama with outside reading and reports and thesis, including Pinero, Jones, Galsworthy, Bennett, Barker, Synge, Yeats, Gregory, Howard, Thomas, Mackaye, and many others.
Junior-Senior course.
Three hours, both semesters. Mr. Nichols.

!XXVII. 19TH CENTURY AMERICAN LITERATURE

A survey course in the major poets and prose writers of America with a study of representative works. Elective.
Freshman-Sophomore course.
Three hours per week, first semester. Miss Todd.

!XXVIII. INTRODUCTION TO POETRY

A study of the principles of versification with exercises in the analysis and interpretation of various masterpieces. Elective.

Three hours per week, second semester. Miss Todd.

XXIX. LITERATURE OF THE GREAT WAR

A course in the poetry of the war with outside reading in the drama, fiction, narrative and expository war writings. Oral reports and thesis required.

Elective.

Two hours a week, first semester. Mr. Nichols.

C.—COURSES IN PUBLIC SPEAKING

(Four hours only may be counted toward an English Major from courses in Division C.)

XXXI AND XXXII. ARGUMENTATION AND DEBATE

A study of the principles of debating, with exercises in brief drawing, writing speeches, and class debates.

Elective course. Should be taken by those desiring to enter Intercollegiate Debates.

Two hours a week, two semesters. Mr. Nichols.

XXXIII. AND XXXIV. EXPRESSION

An elementary course in expression leading to reading, oratory and public speaking and dramatics.

Elective.

Two hours, both semesters. Mr. Nichols.

*Given in 1919-20 and alternate years.

!Given in 1920-21 and alternate years.

FRENCH

Edith A. Hill, Professor

Eleanor Sykes, Instructor

All courses except French I. and II. and XI. may be taken as major courses.

I. AND II. FIRST YEAR FRENCH

Special attention to pronunciation, writing and reading. Exercises in grammar. Grammar and texts suitable to the grade of work required, will be used.

Four hours per week, both semesters.

III. AND IV. SECOND YEAR FRENCH

Rapid review of grammar. Considerable opportunity is given for speaking the language, as but little English is used in the class room. Plays, novels and short stories of some of the greatest modern writers will be studied during the year.

Three hours per week, both semesters.

V. AND VI. CONVERSATION COURSE

Facts of daily life discussed. Designed to train students to speak and write the language with some facility.

Prerequisite I-II.

Two hours per week, both semesters.

*VII. AND VIII. FRENCH LITERATURE OF THE 19TH CENTURY

A lecture and reading course. Conducted entirely in French. Chateaubriand, de Vigny, Hugo, Balzac and others will be studied.

Prerequisite I-IV.

Three hours per week, both semesters.

*IX. AND X. FRENCH 17TH CENTURY POETRY AND PROSE

Lecture course and reading. The principal authors of the classical period, Corneille, Moliere, Racine, La Fontaine, Boileau, etc., will be studied.
Prerequisite I-IV.
Three hours per week, both semesters.

* VII.-VIII., IX.-X. given in alternate years.
VII., VIII. given 1919-1920.

XI. FRENCH

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, phonetic transcription, etc.
Prerequisite I.
Three hours of laboratory per week, one hour credit, one semester.

GEOLOGY

Geo. Robertson, Professor

I GENERAL GEOLOGY

Lectures, recitations, laboratory and field work. The study will include the salient and economic features of the science, giving a systematic and comprehensive knowledge of the most important teachings of Geology. The course will cover (a) Dynamical, (b) Structural, and (c) Historical Geology. Attention will be given to the Petrology and Crystallography of the common rocks and minerals.
Prerequisite, Biology I.-IV. Major.
Junior-Senior course.
Two lecture hours and one laboratory period of two hours per week, first semester.

GERMAN

Edith A. Hill, Professor
Mary Louise Todd, Instructor

All courses except German I and II may be taken as major courses.

I. AND II. FIRST YEAR GERMAN

Systematic training in simple conversation, narration and the elements of German grammar. Texts suitable for the work of the first year will be read. Four hours per week, both semesters. Miss Todd.

III. AND IV. SECOND YEAR GERMAN

Reading of Lessing, Goethe, and Schiller.
Three hours per week, both semesters. Miss Todd.

V. AND VI. COMPOSITION AND CONVERSATION COURSE

A course in conversation, composition and sight reading.
Two hours per week, both semesters. Miss Todd.

*VII. AND VIII. THIRD YEAR GERMAN

The German Novel. Frytag's Soll und Haben, Sudermann's Frau Sorge, and others.
Reading and discussion.
Prerequisite I-IV.
Three hours per week, both semesters.

*IX. AND X. GERMAN LITERATURE

General survey of German Literature from its beginning to the 20th Century.
Prerequisite I-IV.
Three hours per week, both semesters.

*VII. and VIII., IX. and X. given in alternate years. IX. and X. given in 1919-1920.

GREEK

James W. Kyle, Professor

Courses V., VI., VII., VIII., IX. and X., XIII. and XIV. may be counted for a major in Greek.

I. AND II. ELEMENTARY GREEK

Morris' Greek Lessons. Gospel of Luke. Easy composition based on the Gospel of Luke.
Freshman-Sophomore course.
Four hours per week, both semesters.

III. AND IV. XENOPHON: ANABASIS

Books I.-IV. Composition continued. Homer: Iliad, Book I. Metrical reading.
Freshman-Sophomore course.
Four hours per week, both semesters.

V. LYSIAS: SELECTED ORATIONS

Exercises in recomposition of the text. Analysis of style of Lysias. Lectures on the Greek orators.
Freshman-Sophomore course.
Three hours per week, first semester.

VI. HOMER: ILIAD, SELECTIONS

Study of forms from text and from Sterrett's Dialect of Homer. Metrical reading of the Greek. Lectures on the Homeric Poems as literature.
Freshman-Sophomore course.
Three hours per week, second semester.

VII. LUCIAN: SELECTED DIALOGUES

Exercises in recomposition. Required reading of other dialogues in translation. Lectures on the Greek rhetoricians.
Sophomore-Junior course.
Three hours per week, first semester.

VIII. PLATO: APOLOGY, CRITO AND PART OF THE PHAEDO

Discussion of the life and teachings of Socrates. Reading and reviews of the Gorgias, Symposium and Republic in Jowett's translation.
Sophomore-Junior course.
Three hours per week, second semester.

IX. EURIPIDES: IPHIGENIA IN TAURIS; ARISTOPHANES; CLOUDS

Discussion of the plot and characters. Lectures on the Greek theater. Study of the various metres and exercises in metrical reading.
Junior-Senior course.
Three hours per week, first semester.

X. DEMOSTHENES: ORATION ON THE CROWN

Analysis of the style of Demosthenes. Supplemented by reading from Dionysius and select passages from Hyperides, Isaeus, Aeschines and Isocrates.
Junior-Senior course.
Three hours per week, second semester.

XI. AND XII. GREEK LITERATURE IN ENGLISH

Lectures on style, with class work in Fowler's History of Ancient Greek Literature. Required reading of three Greek authors per semester in the best translations, with critical review of each. The power to criticise independently and appreciate reasonably a work of literary art is sought in this course as well as some direct and personal acquaintance with the literature of Greece.
Elective course.
Three hours per week, both semesters.

XIII. AND XIV. MODERN GREEK

A Practical Method by Rangabe will be used as a guide. Part of each hour will be given to conversation in Modern Greek. A magazine published at Athens will be taken by each member of the class. Short stories by present-day writers will be read.
Junior-Senior course.
Three hours per week, both semesters.

HISTORY

A. Harvey Collins, Professor

CoursesV., VI., VII., VIII., IX., X., XI., XII., XIII., XIV., XV. and XVI. will be accepted as major courses.

Note—The six hours of history required for graduation from any department must be History III. and IV., or IV. and V.

I. AND II. ENGLISH HISTORY

This course is planned so as to cover the principal features of English History to the present time. Special attention will be paid to the constitutional phases.
Freshman course.
Three hours per week, both semesters.

III AND IV. MEDIAEVAL AND MODERN EUROPE

A survey of the leading events in European History from about 476 to 1815 A. D., with special reference to the development of the great institutions both of Church and State. Text, lectures, collateral readings, preparation of maps and papers.
Sophomore course.
Three hours per week, both semesters.

V. NINETEENTH CENTURY EUROPE

Beginning with the general peace secured by the Congress of Vienna this course deals with the new political, social and international problems that characterize the nineteenth and the beginning of the twentieth centuries.
Prerequisite History IV. or I. and II.
Sophomore-Junior-Senior course.
Three hours per week, first semester.

VI. INTERNATIONAL RELATIONS

This course is designed to familiarize the student with the more important diplomatic questions that have presented themselves to our own statesmen. Special attention will be given to the American Diplomacy of the Twentieth Century.
Junior-Senior course.
Three hours per week, second semester.

VII. AND VIII. HISTORY OF THE UNITED STATES

Designed to show the growth of the American National Government by a study of the political, social and institutional development of the United States 1783-1920. Special emphasis will be laid on the causes of the Civil War, Reconstruction, and the institutional and political development since 1875. Lectures, reports, investigations and Comparisons.
Junior-Senior course.
Three hours per week, both semesters.

IX. AMERICAN COLONIAL HISTORY

A study of early American history to 1783. Lectures on the discovery, exploration, founding and development of the English Colonies. An intensive study of the causes and results of the American

Revolution. Lectures, text, papers, maps.
Elective course.
Two hours per week, first semester.

X. AMERICAN EXPANSION

Expansion of the American people, along territorial, social and industrial lines. Text and lectures with much collateral reading and preparation of papers and maps.
Elective course.
Two hours per week, second semester.

XI. AND XII. HISTORY OF THE PACIFIC SLOPE

A special lecture course from syllabus together with investigations and reports.
Junior-Senior course.
One hour per week, both semesters.

XIII. THE REFORMATION

A detail study of the Protestant Reformation. An attempt will be made to discover the causes leading to the movement and the immediate and ultimate results, as well as to trace the current of events.
Prerequisite, History I. and II., or III. and IV.
Elective course.
Three hours per week, first semester.

XIV. HISTORY OF LATIN AMERICA

This course deals with the colonial expansion of Spain and Portugal in America and with the political, institutional and industrial development of Latin America. Special attention will be given to the inter-relationship of the two Americas.
Junior-Senior course.
Three hours per week, second semester.

XV. History Seminar

A Seminar Study of some selected topic or movement.
Junior-Senior course.
One hour per week, either first or second semester.

XVI. Current History

A discussion of the important topics of the day, using such periodicals as the Independent, Digest, Outlook, et. al. This course for 1918-19 covered a discussion of the Peace Conference and the organization of the League of Nations.
Elective course.
One hour per week, both semesters.

HISTORY OF MUSIC

Flora C. Cook, Instructor

Illustrated Lecture Course

I. and II. History of Music

Ancient Music. Mediaeval Music. Music of the Sixteenth Century, of the Seventeenth Century, of the Eighteenth Century and the Classical School, and of the Nineteenth Century and the Romantic School. Later Modern Schools. Text book: Fillmore's History of Music. The text is supplemented by collateral readings.
Required of Sophomores for Degree of Mus. Bac.
Two hours per week, both semesters.

LATIN

James W. Kyle, Professor

Courses V. to VIII. and XI. to XVI., inclusive, may be counted for a major in Latin.

I. AND II. CICERO: ORATIONS AND LETTERS

Composition based on the text. Much reading in Latin to acquire expression. Memorizing of select passages.
Three hours per week, both semesters.

III. AND IV. VERGIL: AENEID, BOOKS I.-VI.

Metrical reading of the whole text. Discussion of syntax and figures of Vergil. Reading and reports from Sellar's "Vergil." Memorizing of select passages.
Three hours per week, both semesters.
The above courses are intended for students who have entered with only two years of Latin.

V. CICERO: DE SENECTUTE AND DE AMICITIA

Review of forms and syntax. Discussions of the life and thought of Cicero and the sources of his philosophy.
Freshman-Sophomore course.
Three hours per week, both semesters.

VI. HORACE: SELECTIONS FROM ODES, SATIRES AND EPISTLES

Will be read metrically to secure ease and fluency in the Latin. Parallel passages from Greek and English poets. Discussion of the spirit and art of Horace.
Freshman-Sophomore course.
Three hours per week, second semester.

VII. LIVY: SELECTIONS FROM BOOKS I.-X.

Lectures on the history of Rome. Discussion of the style and rhetorical methods of Livy.
Freshman-Sophomore course.
Three hours per week, first semester.

VIII. TACITUS: HISTORIES, BOOKS I. AND II.

Systematic study of the style of Tacitus. Comparison with Livy and Thucydides. Lectures on the life and times of Tacitus.
Sophomore-Junior course.
Three hours per week, second semester.

IX. LATIN COMPOSITION

Illustrating the syntax and diction of several Latin authors. Designed especially for those who are preparing to teach Latin.
Freshman-Sophomore course.
Two hours per week, first semester.

X. LATIN COMPOSITION

A continuation of Course IX.
Two hours per week, second semester.

XI. PLAUTUS: CAPTIVI, TRINUMMUS AND RUDENS

Metrical reading. Lectures on Latin Comedy and the Greek Theatre.
Junior-Senior course.
Three hours per week, first semester.

XII. LUCRETIUS; CATULLUS; TIBULLUS; SELECTIONS

Metrical reading, lectures and critical essays on the Latin poets.
Junior-Senior course.
Three hours per week, second semester.

*XIII. SENECA: SELECTIONS FROM ESSAYS AND LETTERS

Discussion of philosophy and ethics at Rome in the early Empire. The style of Seneca compared with Cicero and with Tacitus.
Junior-Senior course.
Three hours per week, first semester.

*XIV. QUINTILIAN: INSTITUTIONS, BOOKS X. AND XII.
Discussion of literary criticism among the Romans, and a rapid survey of the field of Latin literature.
Junior-Senior course.
Three hours per week, second semester.

*XV. CICERO—THE TUSCULAN DISPUTATIONS
With selections from Lucretius. A study of the various schools of Greek philosophy and their influence on the thought and feeling of Rome in the latter days of the Republic.
Junior-Senior course.
Three hours per week, first semester.

*XVI. PETRONIUS AND MARTIAL
Selections from the Cena Trimalchionis and from the Epigrams of Martial.
Discussion of the social life and customs of the Romans, with special assignments and reports.
Junior-Senior course.
Three hours per week, second semester.

* Courses XV. and XVI. are offered for 1919-20 in alternation with Courses XIII. and XIV. for 1920-21.

MATHEMATICS AND ASTRONOMY

Emma Kirtland Whiton, Professor
Miriam Scott, Instructor

Courses I., II., III., V., and VI. may not be counted toward a major in Mathematics and not more than one of the courses IV. and VII. may be so counted.

I. ALGEBRA
This course is substantially equivalent to intermediate Algebra, frequently offered for matriculation. It should be taken by all Freshmen who do not offer this course for entrance.
Freshman course.
Three hours per week, first semester.

II. TRIGONOMETRY

Analytic Trigonometry, the proof and applications of the fundamental relations among the functions of angles. Practical Trigonometry, the solution of the plane triangle, measurements of heights and distances.
Prerequisite, Mathematics I.
Freshman course.
Three hours per week, second semester.

III. SOLID GEOMETRY

The fundamental propositions of Solid and Spherical Geometry with many original exercises applied especially to the mensuration of solids.
Freshman course.
Three hours per week, first semester.

IV. COLLEGE ALGEBRA

Rapid review of the Theory of Quadratic Equations, Permutations and Combinations, Series, Logarithms, Determinants and elementary Theory of Equations.
Prerequisite, Mathematics I. and II.
Freshman-Sophomore course.
Three hours per week, second semester.

*V. AND VI. DESCRIPTIVE AND GENERAL ASTRONOMY

A study of the heavenly bodies, their constitution, laws of motion, physical properties and the processes by which man discovers these facts.
Prerequisite, Mathematics I. and II.
Elective course.
Three hours per week, both semesters.

VII. ELEMENTS OF ANALYTIC GEOMETRY

A study of the point, the line and the circle, with

some of the more important and elementary theorems on the conic sections.
Prerequisite, Mathematics I. and II.
Freshman-Sophomore course.
Three hours per week, first semester.

*VIII. ELEMENTARY PROJECTIVE GEOMETRY

Fundamental concepts; anharmonic ratio; projective pencils and ranges. Designed especially for those who purpose to teach mathematics.
Prerequisite, Mathematics I., II. and VII.
Freshman-Sophomore course.
Three hours per week, second semester.

IX. AND X. DIFFERENTIAL AND INTEGRAL CALCULUS

Fundamental formulae and processes of differentiation with an insight into the powerful factor which this subject is in modern scientific research, and a study of the processes of integration and their application to physical and mechanical problems.
Prerequisite Mathematics I., II., VII.
Sophomore-Junior-Senior course.
Three hours per week, both semesters.

XI. AND XII. ADVANCED ANALYTICAL GEOMETRY

A more detailed study of the properties of the conic section; some insight into the study of higher plane curves, including introduction to modern methods in analytic geometry.
Prerequisite, Mathematics I., II., IV., VII., IX., X.
Junior-Senior course.
Three hours per week, both semesters.

*XIII. THEORY OF EQUATIONS

Equations of higher degrees, symmetric functions of roots, determinants of higher orders.

Prerequisite, Mathematics I., II., IV., VII., IX.
Junior-Senior course.
Three hours per week, first semester.

*XIV. ANALYTIC GEOMETRY OF THREE DIMENSIONS

Analytic study of the plane and straight line in space, surfaces of the second degree, introduction to theory of surfaces in general.
Prequisite, Mathematics I.-IV., VII., IX.
Junior-Senior course.
Three hours per week, second semester.

XV. DIFFERENTIAL EQUATIONS

Principles involved in the solution of such equations and the applications of this branch of mathematics to mechanics.
Prerequisite, Mathematics I., II., IV., VII., IX., X
Junior-Senior course.
Three hours per week, first semester.

XVI. ADVANCED INTEGRAL CALCULUS

Special attention will be given to the definite integral and to elliptic integrals.
Prerequisite, Mathematics I., II., IV., VII., IX., X.
Junior-Senior course.
Three hours per week, second semester.

*Courses V., VI., VIII., XIII., and XIV. will not be given during the year 1919-20.

PHILOSOPHY AND EDUCATION

Herbert E. Wise, Professor

For the student who desires to major in Philosophy, the course is designed to arouse an eager interest in the great problems of the universe and human experience; to stimulate accurate reflection thereon, and to elicit personal judgment, such as will adequately meet the requirements of the complex nature of man.

Courses I., II., VII., VIII., IX. and X. are required of students majoring in Philosophy.

All courses in this department will be accepted as majors.

I. LOGIC

Historic stages in the development of logic; principles of deduction and induction; detection of fallacies; training in discriminative and consecutive thinking.

Sophomore-Junior-Senior course.
Three hours per week, first semester.

II. INTRODUCTION TO PHILOSOPHY

This course affords a survey of the field of philosophic enquiry, both in its historical and interpretive aspects.

Sophomore-Junior-Senior course.
Three hours per week, second semester.

III. PSYCHOLOGY

An introduction to the field of Psychology. The elements and functions of conscious life, and the affective, discursive and volitional processes are studied in their relation to practical life.

Biology III. is most desirable as preparation for this course.
Junior-Senior course.
Three hours per week, first semester.

IV. *(a) PHILOSOPHY OF EDUCATION

This course emphasizes the distinguishing aspects of the educative process, comprising the biological, psychological, sociological, and religious. Text is supplemented by special investigations.
Prerequisite III.
Junior-Senior course.
Two hours per week, second semester.

(b) HISTORY OF EDUCATION

The functional aspects of the history of education are traced through Ancient, Mediaeval and Modern periods, as shown in individual and social aims. Text, lectures and reports.
Prerequisite III.
Junior-Senior course.
Three hours per week, second semester.

V. AND VI. APPLIED PSYCHOLOGY

Psychic element in literature; suggestion and mental healing; forensic and social psychology. Special attention given to religious psychology and psychology of thinking.
Text, lectures and reports.
Junior-Senior course.
Two hours per week, both semesters.

*VII. HISTORY OF PHILOSOPHY

The course traces the development of philosophy from the Greek interpretation of the universe to the scientific explanation of the modern period. Careful attention is given to Plato and Aristotle; to the period of Scholasticism; and to the independent thinkers from Descartes to Hume.

Special- studies supplement the text at historic epochs.

Prerequisite I. and II.

Junior-Senior course.

Four hours per week, first semester.

*VIII. HISTORY OF PHILOSOPHY (Continued)

Particular attention is given to the rise and development of the Kantian system; to Kant's influence upon subsequent thought; and to Post-Kantian Idealism in Europe and America, chiefly with reference to Hegelianism and its tendencies. Thesis required.

Prerequisites, Phil. I., II., V.

Junior-Senior course.

Four hours per week, second semester.

IX. CONTEMPORARY PHILOSOPHY

Various philosophical tendencies of representative thinkers, as seen in Naturalism, Realism, Pragmatism and Idealism, will be considered. Special attention will be given to the views of Bergson and Eucken.

Prerequisites Phil. I., II.

Junior-Senior course.

Three hours per week, first semester.

X. ELEMENTS OF METAPHYSICS

This course surveys both special and general problems of Philosophy. It includes problems and theories of knowledge, truth and reality, conception of an objective order, and aims at a constructive philosophy of life. Thesis required.

Prerequisites Phil. I., II., and IX.
Junior-Senior course.
Three hours per week, second semester.

XI. Ethics

This course treats of problems and relations, moral standards, theories of moral values, and includes an historical survey of the classical schools. Thesis required.
Senior course.
Three hours per week, first semester.

XII. Theism

Divine and human personality; arguments for the Divine existence; principal Anti-Theistic theories; ethical and religious teaching of Christianity; relation of Christianity to other religions.
Senior course.
Thesis required.
Three hours per week, second semester.
*Omitted in 1919-20.

GENERAL PHYSICS

Herbert E. Marsh, Professor

I. and II. Mechanics, Molecular Physics, Heat, Sound, Light, Magnetism and Electricity

This course is designed for those who have not had a requisite amount of work in this subject to undertake the more advanced courses III. and IV., and also to meet the requirements of courses involving the essentials of this branch of science. May be pursued without previous work in Physics.
Prerequisite Math. I.
This course may not be counted as a major.
Recitations and lectures two hours and two laboratory periods per week, both semesters.

III. and IV. Mechanics, Molecular Physics, Heat, Sound, Light, Magnetism and Electricity

Although the grasping of principles and not skill in manipulation is strongly emphasized, still the fixing power of laboratory application is recognized. The purpose is to give the student an insight into the real significance of physical things, by putting him in touch with the methods and instruments of modern physical investigation and by carrying him through the process of reasoning by which the present science of physics has been developed.

Prerequisite, one year of entrance Physics and Mathematics II. and IV.

Major course.

Junior-Senior course.

Recitation and lectures two hours and two laboratory periods per week, both semesters.

V. Electrical Measurements

Various methods for exact determination of voltage, resistance, and current; also study and calibration of various types of galvanometers, voltmeters, ammeters, condensers, etc.

Major course.

Junior-Senior course.

One recitation and three laboratory periods per week, first semester .

POLITICAL AND SOCIAL SCIENCE

H. C. Tilton, Professor

All courses listed under this department will be accepted as majors.

I. Introduction to Sociology

A study of the origin and development of the family and the evolution of certain social institutions. Modern social problems such as divorce, immigration, pauperism, socialism, etc., will receive attention.

Sophomore course.
Three hours per week, first semester.

II. PRINCIPLES OF SOCIOLOGY

An analysis of social life and the forces producing social organization; application of principles to concrete problems. Text, lectures and reports.
Prerequisite, Psychology and Course I.
Junior-Senior course.
Three hours per week, second semester.

III. AND IV. INTRODUCTION TO ECONOMICS

The development and significance of the characteristic features of economic life, the principles governing production, distribution and consumption and the practical economic problems of modern life.

Sophomore-Junior course.
Three hours per week, both semesters.

V. GOVERNMENT

A discussion of the essential constituent elements of the state; of the functions and sphere of the state; of citizenship and nationality; of constitutions, their nature, sources and kinds; of the more important theories concerning the origin, nature, functions and organizations of the state.
Sophomore-Junior-Senior course.
Three hours per week, first semester.

VI. MUNICIPAL GOVERNMENT

Mainly a study of the modern American city will

be made. The historical and comparative method will be used as examination is made of the government and experiences of European cities.
Junior-Senior course.
Three hours per week, second semester.

VII. EUROPEAN GOVERNMENTS

A comparative study of the political institutions of the leading states of Europe.
Sophomore-Junior-Senior course.
Three hours per week, first semester.

VIII. UNITED STATES GOVERNMENT AND POLITICS

The organization of state and national governments, their actual working and the history and function of political parties.
Freshman-Sophomore course.
Three hours per week, second semester.

IX. INTERNATIONAL LAW

A study of the general principles governing nations in their intercourse with each other, such as rules of peace and war, diplomatic usage and methods of arbitration. Leading cases and reports on special topics.
Junior-Senior course.
Three hours per week, first semester.

X. CONSTITUTIONAL LAW

Principles and development of American constitutional law. Lectures, reports and cases.
Prerequisite, V. or VIII.
Elective course.
Three hours per week, second semester.

XI. Introduction to Public Finance

The theory and method of taxation; management and expenditure of public funds; public debts.
Prerequisite, III. and IV.
Elective course.
Three hours per week, first semester.

XII. Industrial Corporations

The course deals with the nature and history of corporations and their significance in modern life. Attention is given to the problems arising from the growth of corporations and combinations, and to various remedies proposed.
Prerequisite, III. and IV.
Elective course.
Three hours per week, second semester.

XIII. Money and Banking

Principles of money; recent monetary history; functions of banks; development of the United States system of banks; present problems.
Prerequisite, III. and IV.
Elective course.
Three hours per week, first semester.

XIV. Labor Problems

History and development of organized labor, labor problems, and labor legislation.
Prerequisite, III. and IV.
Elective course.
Three hours per week, second semester.

SPANISH

Edith A. Hill, Professor

I. AND II. FIRST YEAR SPANISH

Ready familiarity with the essentials of Spanish grammar, and systematic training in pronunciation, conversation and reading.
Four hours per week, both semesters.

III. AND IV. SECOND YEAR SPANISH

Selected texts from modern Spanish authors.
Major course.
Three hours per week, both semesters.

V. AND VI. CONVERSATION AND COMPOSITION COURSE

A course in conversation and commercial letter writing.
Two hours a week, both semesters.

VII. SPANISH

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, etc.
Prerequisite I.
Three hours of laboratory per week. One hours credit, one semester.

Schedule of Recitations

FIRST SEMESTER

7:45 O'CLOCK

Biology IX			W	Th	F
Engineering IX				Th	F
English I (Section 1) T	M	T	W		
English III, N			W	Th	F
English V	M	T			
Greek III	M	T	W	Th	
History V		T	W	Th	
Mathematics I				Th	F
Mathematics III	M	T	W		
Philosophy XI			W	Th	
Physics III		T	W		
Physics V			W		
Political Science III	M	T		Th	
Spanish I	M	T			
Spanish III			W	Th	F

8:45 O'CLOCK

Biology V (VII)	M		W	Th	
Biology IX					F
Chemistry I	M	T			
Chemistry V			W		
English I A		T		Th	F
English XVII (XXV) N	M	T	W		
German I T	M	T		Th	F
German (VII) IX	M	T	W		
Greek I	M		W		
Harmony I	M			Th	
History I			W	Th	F
History of Art		T			F
Latin I		T		Th	F
Mathematics I			W		
Philosophy I	M			Th	F
Physics III	M	T	W	Th	F
Physics V			W		
Political Science IX	M		W		F
Political Science XIII		T		Th	
Spanish I				Th	F

9:45 O'CLOCK

Biology III		T			
Biology V (VII)				Th	
Biology XI	M		W		F
Chemistry I	M	T		Th	F
Chemistry V			W		
English XXIX, N	M	T		Th	
English XXXIII, N			W		F
French III	M		W		F
French V		T		Th	
German III, T	M		W		F
German V, T		T		Th	
Greek I				Th	F
Harmony III	M		W		
History XI		T			
Latin III	M	T	W		
Mathematics XI	M	T	W		
Philosophy III	M		W		F
Physics I	M	T	W	Th	F
Physics V	M	T			
Political Science I		T		Th	F
Political Science XIII			W		

10:45 O'CLOCK

Biology III		T	W	Th	F
Chemistry III				Th	F
Chemistry V			W		
Chemistry (VII,) VIII	M	T			
Engineering IX			W		
English I (Section II) N.			W	Th	F
English (XIII) XV or XXIII.	M	T	W		
History VII	M	T	W		
Latin V	M		W		F
Mathematics VII			W	Th	F
Philosophy (VII) IX			W	Th	F
Philosophy V	M	T			
Physics I	M	T			
Physics V	M	T		Th	
Political Science V	M	T	W		
Spanish V				Th	F

11:45 O'CLOCK—ASSEMLBLY. 1:00 O'CLOCK

Bible III (V)			W	Th	
Biology I			W		
Chemistry III	M	T			
Chemistry V				Th	F
Chemistry (VII) XIII				Th	F
Engineering I				Th	F
Engineering III				Th	F
Engineering V	M	T	W		
Engineering VII				Th	F
English VII, T		T		Th	F
English IX, N	M	T	W		
English XXI, T			W		
French I	M	T		Th	F
Geology I	M	T		Th	
Greek XI	M		W		F
History XIII		T	W	Th	
Mathematics (V)			W	Th	F
Political Science VII					

2:00 O'CLOCK

Biology I		T	W	Th	F
Chemistry III	M	T			
Chemistry V				Th	F
Chemistry (VII) XIII				Th	F
Engineering I				Th	F
Engineering III				Th	F
Engineering V	M	T			
Engineering VII			W	Th	F
English XXI, T	M	T			
English XXVII, T			W	Th	F
English XXXI, N	M	T			
French VII (IX)	M	T		Th	
Geology I	M				
Greek V	M		W		F
History III		T	W	Th	
History of Art III		T			F
History of Music I	M			Th	
Mathematics IX			W	Th	F
Political Science XI	M	T		Th	

3:00 O'CLOCK

Chemistry III	M	T			
Chemistry V				Th	F
Chemistry (VII) XIII				Th	F
Engineering VII			W	Th	F
Engineering IX		T			
History IX		T		Th	
History XVI	M				
Latin VII	M		W		F

SECOND SEMESTER

7.45 O'CLOCK

Biology X			W	Th	F
Engineering XI			W	Th	F
English II (Section I) T	M	T	W		
English IV, N			W	Th	F
Greek IV	M	T	W	Th	
History VI		T	W	Th	
Mathematics II				Th	F
Mathematics IV	M	T	W		
Philosophy XII		T	W	Th	
Physics IV	M	T			
Political Science IV	M	T		Th	
Spanish II	M	T			
Spanish IV			W	Th	F

8.45 O'CLOCK

Biology VI (VIII)	M		W	Th	
Biology X					F
Chemistry II	M	T			
Chemistry VI			W		
English II, A T		T		Th	F
English XVIII (XX), N	M	T	W		
German II	M	T		Th	F
German (VIII) X	M	T	W		
Greek II	M		W		
Harmony II	M			Th	
History II			W	Th	F
History of Art II		T			F
Latin II		T		Th	F
Mathematics II			W		
Philosophy II	M			Th	F
Physics IV	M	T	W	Th	F
Political Science X	M		W		F
Political Science XIV		T		Th	
Spanish II				Th	F

9.45 O'CLOCK

Biology IV		T			
Biology VI (VIII)				Th	
Biology XII	M		W		F
Chemistry II	M	T		Th	F
Chemistry VI			W		
English XII, N	M	T		Th	
English XXXIV, N			W		F
French IV	M		W		F
French VI		T		Th	
German IV	M		W		F
German VI		T		Th	
Greek II				Th	F
Harmony II		T			F
History XII		T			
Latin IV	M	T	W		
Mathematics XII	M	T	W		
Philosophy IV	M		W		F
Physics II	M	T	W	Th	F
Political Science VIII		T		Th	F
Political Science XIV			W		

10.45 O'CLOCK

Biology IV		T	W	Th	F
Chemistry IV				Th	F
Chemistry VI			W		
Chemistry (VIII) XIV	M	T			
Engineering X			W		
English II (Section II), N			W	Th	F
English XVI or XXIV, T	M	T	W		
History VIII	M	T	W		
Latin VI	M		W		F
Mathematics XV			W	Th	F
Philosophy VI	M	T			
Philosophy (VIII) X			W	Th	F
Physics II	M	T			
Political Science VI	M	T	W		
Spanish VI				Th	F

11:45 O'CLOCK—ASSEMBLY. 1:00 OCLOCK

Bible IV (VI)			W	Th	
Biology II			W		
Chemistry IV	M	T			
Chemistry VI				Th	F
Chemistry (VIII) XIV				Th	F
Engineering II				Th	F
Engineering IV				Th	F
Engineering VI	M	T	W		
Engineering VIII				Th	F
Engineering X				Th	F
English VIII, T		T		Th	F
English X, N	M	T	W		
English XXII, T			W		
French II	M	T		Th	F
Greek XII	M		W		F
History XIV		T	W	Th	
Mathematics VI			W	Th	F
Political Science XII	M	T		Th	

2.00 O'CLOCK

Biology II		T	W	Th	F
Chemistry IV	M	T			
Chemistry VI				Th	F
Chemistry (VIII) XIV				Th	F
Engineering II				Th	F
Engineering IV				Th	F
Englineering VI	M	T			
Engineering VIII			W	Th	F
Engineering X				Th	F
English XXII, T	M	T			
English XXIV, T			W	Th	F
English XXXII. N	M	T			
French (VIII) X	M	T		Th	
Greek VI	M		W		F
History IV		T	W	Th	
History of Art		T			F
History of Music II	M			Th	
Mathematics X			W	Th	F
Political Science II	M	T	W		

3.00 O'CLOCK

Chemistry IV	M	T			
Chemistry VI				Th	F
Chemistry (VIII) XIV				Th	F
Engineering VIII			W	Th	F
History X		T		Th	
History XVI	M				
Latin VIII	M		W		F

College of Fine Arts

DEPARTMENT OF MUSIC AND ART

GENERAL INFORMATION

In accordance with the plan followed in connection with the other departments of the University, provisions have been made for the most thoro and advanced work in the Departments of Music and Art.

The line of work in the University course in Music, conferring the degree of Bachelor of Music, corresponds with that of some of the European Universities.

Preparatory, or Elementary work has also been provided to accommodate those who have not the proper number of entrance requirements for registration in the College work in Music. Saturday classes for children and young people in both Piano and Art provide a valuable opportunity for the cultivation of talent in the early years under the guidance of competent instructors, who are under the supervision of the Dean of the College of Fine Arts.

Realizing the extent to which superior musical efficiency is attainable only in conjunction with the highest cultural development, stress is laid upon this phase of the students' growth; and special attention is directed to such courses in the other departments of the University as will prove of value in this respect to Music and Art students.

A Choral Society under the direction of the Head of the Department of Voice gives opportunity for expression and development of musical ability to the students of the entire University.

The Men's College Glee Club and the Women's College Glee Club are open to a limited number of engagements.

For particulars and terms, address the Dean of the College of Fine Arts, University of Redlands, Redlands, California.

Classes in the Department of Music will be organized at the beginning of the college year, as indicated in the Calendar.

Special lessons may be begun at any time.

Piano practice may be arranged for at the Fine Arts Building or Bekins Hall.

DEPARTMENTS, DEGREES AND REQUIREMENTS

DEPARTMENTS

The College of Fine Arts is made up of the following Departments:

(1) Music. (2) Drawing and Painting.

DEGREES AND CERTIFICATES

A Diploma conferring the degree of Bachelor of Music will be awarded to those who complete the required courses in the Department of Music.

A Special Diploma conferring the degree of Bachelor of Music will be awarded to those who complete the required courses with high standing in all subjects as well as in public performance.

REQUIREMENTS FOR ADMISSION

There are two methods of admission to the College of Fine Arts, (1) by Examination, (2) by Certificate.

By Examination:—All students who cannot present certificates from accredited schools will be examined in the subjects required for entrance.

By Certificate:—Students will be admitted without examination on certificates from accredited High Schools or other preparatory schools, provided that the course pursued in High School shall include at least twelve units in subjests usually designated as solids.

Students who do not present Physics for entrance will be required to pursue that subject through at least the discussion of Sound.

In Piano and Organ—Applicants are required, in addition to the above, to pass an examination embracing the following or their equivalent:

1. An exercise. 2. Selections from Bach. 3. Sonata—Classical School.

In Voice and Violin:—Applicants for the regular course in Voice, or Violin, must be able to play Piano accompaniment of moderate difficulty. Any deficiencies in this respect must be made up before graduation.

SPECIAL STUDENTS IN MUSIC

Students need not be deterred from seeking to enter the School of Fine Arts of the University because they can not satisfy all the requirements for full admission to that school. Those requirements are for persons who are candidates for a degree in music. All persons who desire to pursue a special line of work, without conforming to the requirements for entrance, or following a prescribed course, may apply for admission to the School of Fine Arts as special students. The admission of such persons is under the control of the Dean, to whom they should apply, and whose certificate of acceptance must be presented to the Registrar before registration.

REQUIREMENTS FOR GRADUATION

No student will be permitted to graduate from the Department of Music, College of Fine Arts, who has not credit for the 124 hours as designated below, including two years of physical education, and who has not taken at least one year of regular work at the University.

Students taking instrument work in music are required to practice two hours per day for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives three hours of college credit toward the 124 hours required for graduation.

Students taking Voice are required to practice from one hour to two hours per day, according to the grade of the work, for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives the student two hours of college credit toward the 124 required for graduation.

The required work leading to the different degrees is as follows:

BACHELOR OF MUSIC IN VOICE

Voice	32 hours
Piano (Special)	24 hours
History of Music	4 hours
Theory	16 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
Sight Singing and Ear Training	2 hours
Electives	6 hours
Total	124 hours

BACHELOR OF MUSIC IN PIANO

Piano	48 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	2 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
One additional Instrument or Voice	8 hours
Electives	6 hours
Total	124 hours

BACHELOR OF MUSIC IN VIOLIN

Violin	48 hours
Piano (Prep.)	12 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	2 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
Electives	2 hours
Total	124 hours

BACHELOR OF MUSIC IN ORGAN

Organ	24 hours
Piano	24 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	2 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
Electives	14 hours
Total	124 hours

Note—For description of required Liberal Arts courses see Departments of Instruction, College of Liberal Arts.

ART

Students for the Art Department will be admitted at any time, but not for less than one semester except by special arrangement with the Dean.

Instruction in all Art Classes is individual. Advancement of each student depends upon the degree of proficiency attained.

ADDITIONAL REQUIREMENTS

ARTISTS' COURSE—COLLEGIATE COURSE

These courses are identical in outline, but students in the Artists' courses are expected to do a larger amount of work, to maintain the highest grade in all musical subjects, and give a graduating recital. This is not required in the collegiate course, which is intended for those who wish to fit themselves for teachers or take music for personal culture rather than to become public performers. After the second year students are graded in the two courses according to their standing.

Students who are backward in technical development at the end of the Sophomore year must make up the deficiency by special work in Piano before they receive Junior standing.

CONCERTS AND RECITALS

Concerts are frequently given in Recital Hall, by the Faculty and advanced students.

Concert courses which are arranged for at special rates by the Spinet Club of Redlands, afford Students an opportunity to hear many noted musicians.

Recitals are given semi-monthly by the students of the College of Fine Arts at which works studied in the class room are performed before audiences of fellow students and their friends. All Fine Arts students are required to attend these concerts and recitals, and to take part in programs at least twice a year and to present, each semester, a record of attendance. These semi-public appearances are of great assistance in enabling the student to acquire the ease and self-possession so essential to a successful public appearance.

At the close of the College year, during Commencement Week, the Anniversary Recital of the College of Fine Arts, Department of Music is held at which the students doing the best work in performance at the above-mentioned recitals are heard.

EXPENSES

A Matriculation fee of Five Dollars is required of each student on registration at the offices of the University.

Rates with heads of departments: Per semester, 16 weeks.

Voice, two periods per week	$96.00
Voice, one period per week	48.00
Voice, (3 in class) two periods per week	64.00
Voice, (3 in class) one period per week	32.00
Piano, two periods per week	96.00
Piano, one period per week	48.00
Organ, two periods per week	64.00
Organ, one period per week	32.00
Violin, one period per week	48.00

Rates with Instructors.

Piano, two periods per week	64.00
Piano, one period per week	32.00
Piano, two periods per week	42.00
Piano, one period per week	22.00
Piano (Saturday class for young people)	12.00
Violin, two periods per week	42.00
Violin, one period per week	22.00

Rates for Special Students.

(Private lessons at stated rates may be begun at any time during the year, students paying for the individual lessons proportionately.)

Rates for Art students.

Drawing and Painting, five hours per week	50.00
Drawing and Painting, two hours per week	20.00
Children's Class, (Saturdays) one hour	12.00
Practice Piano fee, per semester	5.00

The other courses required in the College of Fine Arts are class subjects, and are paid for at the regular rate of $16.00 for each five hours of class recitation or fraction thereof.

Departments of Instruction

ART

Kate Watkins, Head of Art Department

Complete course in the following:

Drawing.
Modelling in clay.
Painting in oil and water color.
Working from the cast, still life, and model.
Composition and design.
Out-door sketching.

The following course is designed for those who wish to prepare themselves for teachers of Art. A certificate of proficiency will be awarded for the satisfactory completion of this course which is open to graduates of recognized High Schools:

Studio work	18 hours
Art History	8 hours
English	6 hours
Psychology	3 hours
Ethics	3 hours
Modern Languages	14 hours
Biblical Studies	2 hours
Electives	11 hours
Total	65 hours

STUDIO WORK

Charcoal drawing from cast and still life.
Pen and ink, and pencil drawing.
Modelling in clay.
Painting in oil and water color, from still life and model.
Outdoor sketching.
Composition and design.
Wood block designing.
Interior decoration.
Painting from life.
Artistic anatomy—Perspective.

HISTORY OF ART

I. Ancient and Mediaeval Architecture and Sculpture.
Two hours per week, first semester.

II. Renaissance and Modern Architecture and Sculpture. Continuation of Course I.
Two hours per week, second semester.

III. Painting, Early Painting and Renaissance Painting.
Two hours per week, first semester.

IV. Painting, Modern. Continuation of Course III.
Two hours per week, second semester.

Lecture courses, supplemented by collateral reading and picture study.

Courses in Art History not open to Freshmen.

PIANO

Olga Steeb, Professor
Annette Cartlidge, Instructor
Flora Cordelia Cook, Instructor

I. Piano

Technical training according to the principles of modern piano technique. Systematic training in art-principles of technique, phrasing and tone-quality. Elementary study of the characteristics of the various classic composers. Repertoire of selections from standard works by the best composers.

Berens, Czerny, Heller, Bach.

Freshman course.

Two hours per week, first semester.

II. Piano

Technical training.

Continuation of classical study (at least two Sonatas).

Reportoire of selections from the works of the best composers, classic and romantic.

Freshman course.

Two hours per week, second semester.

III. Piano

Technical training—Czerny, Cramer, Kulak.—Study of the characteristics of the various classic composers. Repertoire.

Sophomore course.

Two hours per week, first semester.

IV. PIANO

Technical training—Continuation of classical study (at least two Sonatas). Repertoire.
Sophomore course.
Two hours per week, second semester.

V. PIANO

Technical training. Romantic School. Beethoven.—Sonatas. Repertoire.
Exercises for the independence of the fingers, I. Phillip. Studies of Clementi, Cramer, Czerny (Op. 740) and others as needed. Bach.
Junior course.
Two hours per week, first semester.

VI. PIANO

Technical training.—Bach (continued). Beethoven (continued).
The Romantic School.
Junior course.
Two hours per week, second semester.

VII. PIANO

Technical training.
Studies selected from the works of the greatest masters of pianistic literature.
Senior course.
Two hours per week, first semester.

VIII. PIANO

Technical training. Interpretations (Christiani, Art-principles). Pedagogics (for prospective teachers).
Senior course.
Two hours per week, second semester.

PUBLIC SCHOOL MUSIC

Annette Cartlidge, Instructor

The University offers unusual advantages to students wishing the best preparation for efficient teaching, especially to those who wish to prepare themselves to teach music in high schools in addition to French, English, or some other subject.

Teachers with experience in public schools and with some musical training, who desire to enter a special field, will find the course suited to their needs. Students may combine work in this department with the four years course in Liberal or Fine Arts.

I. AND II. PUBLIC SCHOOL MUSIC

Fundamentals of music teaching in the kindergarten. Rhythmic expression. Singing games. Song interpretation. Individual singing. Work with monotones. Creative songs.
Fundamentals of music teaching in the primary grades, including first, second, and third grades. The work of the kindergarten expanded and enlarged. Practice teaching.
Fundamentals of music teaching in the fourth, fifth, sixth, seventh, and eighth grades. High School course outlined. Preliminaries to sight singing, chorus, glee clubs, orchestra, music appreciation, presentation of Harmony, analysis, musical form, materials, and practice teaching.
Two hours per week, both semesters.

III. AND IV. SIGHT SINGING AND EAR TRAINING

Freshman course.
Two hours per week, both semesters.

THEORETICAL SUBJECTS

HARMONY, COUNTERPOINT, FORM AND COMPOSITION

Flora Cordelia Cook, Instructor

I. Harmony

The rudiments of music. Major and minor scales. Intervals Chords and their inversions.
Freshman-Sophomore course.
Two hours per week, first semester.

II. Harmony

Harmonization of figured basses and melodies using triads.
Freshman-Sophomore course.
Two hours per week, second semester.

III. Harmony

The dominant seventh and ninth chords and their inversions. Modulation. Secondary sevenths.
Sophomore-Junior-Senior course.
Prerequisite I. and II.
Two hours per week, first semester.

IV. Harmony

Suspensions and embellishments.
Diminished seventh chords.
Chromatic harmony.
Sophomore-Junior-Senior course.
Two hours per week, second semester.

*V. Counterpoint

Junior-Senior course.
Prerequisite I. and II.
Two hours per week, first semester.

VI. CANON AND FUGUE
Junior-Senior course.
Prerequisite V.
Two hours per week, second semester.

*VII. HARMONIC ANALYSIS AND MUSICAL FORM
Free composition and orchestration analysis.
Junior-Senior course.
Prerequisite, I.-IV.
Two hours per week, first semester.

VIII. MUSICAL APPRECIATION
Junior-Senior course.
Two hours per week, second semester.

*Note—V. and VI. alternate with VII. and VIII.

VIOLIN

Oskar B. Seiling, Professor

I. VIOLIN
Joachim method, first part of Book I.
Violine Technique; Sevcik, Book I.
Training of ear; bowing and left hand.

II. VIOLIN
Joachim methods, second part of Book I.
Violin Technique; Sevcik.
Etudes: Kayser, Mazas, Herman, etc.
Easy solos from the different composers.

III. VIOLIN
Joachim method, third part of Book I.
Violine Technique; Sevcik Book II.
Scales and other studies.
Etudes: Mazas, Leonard, Dont, etc.
Solos according to ability of student.

IV. VIOLIN

Joachim method, fourth part of Book I.
Violine Technique; Sevcik.
School Concerti and other selections; Ries, Viotti, Rode, etc.

V. VIOLIN

Joachim method, Book II.
Violine Technique; Sevcik.
Etudes: Herman, Dont, Mazas, etc.
Concerti, Sonate and other solos from modern and old composers.

VI. VIOLIN

Joachim method, Book II.
Violine Technique; Sevcik.
Concerti Sonate and other solos from Beethoven, David, Massenet, Couperin, Brahms, Bach, etc.

VII. VIOLIN

Joachim method.
Violine Technique; Sevcik.
Etudes: Rode, Leonard, Campanolli, etc.
Concerti: Spohr, Vitalli, Lipinski, etc.
Sonate: Veraccina, Tartini, Corelli, Bach.

VIII. VIOLIN

Joachim method.
Violin Master Technique; Sevcik.
Etudes: Leonard, Petri, Dont, Vieuxtemps, Paganini.
Concerti for finish and interpretation; Saint-Saens, Mendelssohn, Wieniawski, Beethoven, Paganini, etc.

VOICE

Charles Edward Hubach, Professor

I. VOICE

Systematic training in voice production. Ear and mental training in regard to tone-quality.
Concone's Fifty Lessons for Medium Part of Voice.
Freshmen course.
Two hours per week, first semester.

II. VOICE

Physical training in regard to tone-quality.
Bel Canto. Anthology of Italian Song, embracing the pre-classical song writers, Peri, Caccini, Carissimi and Monteverdi.
Freshmen course.
Two hours per week, second semester.

III. VOICE

Continuation of Voice II. Voice from Psychological view point, Interpretation. Continuation of Anthology of Italian Song, volumes I and II. Early classics of Italian School; Scarlatti, Handel, Caldara, Gluck, etc.
Sophomore course.
Two hours per week, first semester.

IV. VOICE

Concone's Forty and Twenty-five Lessons for Medium Part of Voice. English and American picture study.
Sacred Song Literature for Protestant Churches.
English and American Simple Secular Song Literature.
Sophomore course.
Two hours per week, second semester.

V. VOICE

Continuation of Voice IV. Concone's Fifteen Lessons. Later Italian Classics: Mozart, Haydn, Rossini, Donizetti, Bellini, Verdi, etc., Oratorio Opera.
Junior course.
Two hours per week, first semester.

VI. VOICE

Trills, cadenze and general training in agility.
English and American general song literature of medium difficulty. Oratorio opera.
Junior course.
Two hours per week, second semester.

VII. VOICE

Continuation of Voice VI. Ensemble singing.
General old and new opera.
German and French song literature, including Schumann, Schubert, Brahms, Franz, Grieg, etc.
Senior course.
Two hours per week, first semester.

VIII. VOICE

Dramatic singing or singing with action.
General International Repertoire (compositions sung in the original languages).
General training for teachers of voice.
Senior course.
Two hours per week, second semester.

Register of Students

GRADUATES OF 1918

BACHELOR OF ARTS

Alford, Nellie Lorena	Philosophy
Campbell, Clinton Calvin	English
Christensen, Nellie Esther	English
Davis, Dorothy Irene	History
Ford, Clarence Ingham	Philosophy
Gleason, Floy Fern	English
Hansen, Lucile May	Natural Science
Hansen, Nine Bertha	English
Hentschke, Hildegarde Clara	Modern Languages
Jacobsen, Emmanuel Broholm	Philosophy
Silke, Victor Stanley	Philosophy
Stockton, Elizabeth Jane	English
Stubbs, Aileen Joyce	English

BACHELOR OF SCIENCE

Hedstrom, Carl George	Mathematics
Holt, Marvin Greenwood	Chemistry
Kincher, E. Othello	Chemistry

BACHELOR OF MUSIC

Boettger, Lulu Lisette	Piano
Campbell, Anne Jane	Voice
Elliott, Elsie Jewell	Piano
Helsley, Carol Virginia	Piano
Ogburn, Gladys Henrietta	Piano
Stamps, Mary Louise	Piano
Wheatley, Ernestine Topliff	Voice
Wisdom, Eva Marie	Voice

In the register of students below the following abbreviations are used, F., S., J., Sr., means Freshman, Sophomore, Junior or Senior, respectively; Sp. Special, Mu., Music, and SATC., Student Army Training Corps.

REGISTER OF STUDENTS, 1918-19

Abbey, J. Walker, S.	Alhambra, Cal.
Acker, Tecel Corona, Sp.	Prescott, Ariz.
Adams, Maurice Glenwood, SATC., F.	Redlands, Cal.
Ahlstrom, Eleanor Christina, Sr.	Los Angeles, Cal.
Aldrich, James Harold, SATC.	Santa Barbara, Cal.
Allen, Barbara, Mu.	Redlands, Cal.
Althouse, Kent, SATC.	Los Angeles, Cal.
Andersen, Donald S. C., F.	Redlands, Cal.
Andrews, Aileen Ruth, Sr.	Redlands, Cal.
Andrews, Eleanor, F.	Redlands, Cal.
Andrews, Richard J., SATC.	Burnett, Cal.
Austin, Edith, S.	Redlands,Cal.
Bacon, Carol Harriet, F.	Biggs, Cal.
Bader, Walter Alfred, S.	Aromas, Cal.
Baker, Elmer Romer, SATC.	Pasadena, Cal.
Barker, Edwin Lawrence, SATC., S.	Oakland, Cal.
Barrett, M. Virginia, S.	Redlands, Cal.
Beddall, Mabel, Sp.	Redlands, Cal.
Bedford, Vera Elizabeth, F.	Long Beach, Cal.
Beekley, H. Del, SATC.	San Diego, Cal.
Bell, Archibald Weir, SATC, F.	Redlands, Cal.
Bennett, Bert Malcolm, SATC., F.	Los Angeles, Cal.
Berry, Richard Jean, SATC.	Glendale, Cal.
Bethell, Charles Worden, SATC., F.	Redlands, Cal.
Biggin, Alfreda Marie, F.	Redlands, Cal.
Blanc, Clara Bernice, S.	Julian, Cal.
Blowers, Francis Emile, SATC., S.	Madera, Cal.
Blowers, Ruth Anna, J.	Madera, Cal.
Boekenoogen, Helen Gladys, F.	South Pasadena, Cal.

Bowles, Orin D., SATC.	Riverside, Cal.
Branch, James Delmar, F.	Hermosa Beach, Cal.
Brayton, George F., F.	Burnett, Cal.
Brewer, Lawrence Prescott, SATC., F.	Redlands, Cal.
Brownlie, Jean Alexander, J.	Vallejo, Cal.
Brucker, Harold George, SATC.	San Diego, Cal.
Bryant, Elizabeth Arabell, F.	Colorado Springs, Colo.
Buchanan, Ethel, Sp.	San Bernardino, Cal.
Buck, William S., SATC.	San Diego, Cal.
Bulmer, Marion Ray, F.	Chula Vista, Cal.
Burkey, Ulysses, Mu.	San Bernardino, Cal.
Bussell, Elmer John, SATC.	Los Angeles, Cal.
Cameron, Roderick P., Sp.	Redlands, Cal.
Carlson, Roy Washington, F.	Kingsburg, Cal.
Carpenter, Benjamin W., SATC.	Los Angeles, Cal.
Chadwick, Ruth A., Sp.	Redlands, Cal.
Churchill, Carrie H., S.	Long Beach, Cal.
Clock, Hope Hilliker, F.	Redlands, Cal.
Coggins, May A., J.	Phoenix, Ariz.
Coggins, Ruth Mason, Sr.	Phoenix, Ariz.
Colwell, Kathryn, Sp.	Redlands, Cal.
Cook, Lloyd Lee, SATC, F.	San Bernardino, Cal.
Coombs, Walter Munroe, SATC.	San Bernardino, Cal.
Copeland, Elizabeth Angeline, Mu.	Yucaipa, Cal.
Copeland, Frances Sherwood, Mu.	Yucaipa, Cal.
Cortner, Catherine, Mu.	Redlands, Cal.
Covington, Iva M., Mu.	Redlands, Cal.
Coulthurst, Stella Jane, J.	Whittier, Cal.
Crandall, Alice Pennington, F.	National City, Cal.
Crandall, Stephen Adam, STAC., F.	National City, Cal.
Crowe, Cecil Morgan, F.	Ojai, Cal.
Cruickshank, Helen, J.	Yucaipa, Cal.
Cummings, Oliver de Wolf, SATC., S.	Pasadena, Cal.
Cummings, William Vaughan, SATC., S.	Pasadena, Cal.
Cunningham, Herbert L., SATC, F.	Somis, Cal.

Curtis, Margaret, Sr.	San Bernardino, Cal.
Cushing, Horace Samuel, SATC, F.	Redlands, Cal.
Cushman,, Ernestine G., Sp.	Redlands, Cal.
Custer, Clyde C., SATC., S.	Covina, Cal.
Daniels, Lola, S.	Redlands, Cal.
Daniels, Rose, S.	Redlands, Cal.
Davis, Russell E., SATC.	San Bernardino, Cal.
Deming, Chauncey Merrill, SATC., F.	Redlands. Cal.
Downer, Lewis E.,SATC., F.	Sunnyvale, Cal.
Draper, Howard Crapo, SATC., F.	Highland, Cal.
Dunfee, Ruskin Louis, SATC.	Long Beach, Cal.
Dunham, Cloyd W., SATC.	San Diego, Cal.
Dunham, Constance, Mu.	Yucaipa, Cal.
Dunham, Leland Edward, SATC.	San Jacinto, Cal.
Dye, Beulah Flora, J.	Cutler, Cal.
Dye, Fred Lee, S.	Redlands, Cal.
Dye, Mabel, S.	Long Beach, Cal.
Eadie, William H., SATC.	San Bernardino, Cal.
Ellis, Ruth Haseltine, F.	Long Beach, Cal.
Erickson, Lars Henry, SATC.	Beaumont, Cal.
Ewing, George W., Sp.	Highland, Cal.
Fickle, Thomas L., SATC., S.	San Diego, Cal.
Finley, George Herbert, F.	Santa Barbara, Cal.
Finley, Irene, J.	Santa Barbara, Cal.
Fitch, Mildred, S.	Long Beach, Cal.
Fitzsimmons, Helen Katherine, S.	Redlands, Cal.
Fletcher, Louise E., Sp.	Jamestown, N. Y.
Ford, Harold Richards, SATC., F.	Redlands, Cal.
Ford, Helen Melvina, F.	Ceres, Cal.
Ford, Fred Bennett, SATC., F.	Hanford, Cal.
Frank, Albert Fred, SATC., F.	San Diego, Cal.
Freeman, Dorothy, J.	Long Beach, Cal.
Fridell, Mrs. Elmer A., F.	Des Moines, Iowa
Frost, Rosamund, Mu.	Redlands, Cal.
Fryer, Edwin A., SATC.	Cattleford, Idaho

Gaines, John S., SATC.	Sherman, Cal.
Gair, Milton Marshall, SATC., F.	San Diego, Cal.
Garber, William P., SATC.	San Diego, Cal.
Gleason, Paul R., SATC., S.	Corona, Cal.
Glover, Bertrand Warren, SATC.	West Millbury, Mass.
Godfrey, Melvin H., F.	Santa Barbara, Cal.
Goodman, Walter S., Sp.	Phoenix, Ariz.
Geoghegan, Gordon, SATC.	San Diego, Cal.
Gosling, Kate Carla, Sp.	Monroe, La.
Grant, Evelyn Anderson, J.	Santa Barbara, Cal.
Gribbin, Harold William, SATC.	Los Angeles, Cal.
Guely, Genevieve, F.	Chesley, France
Gullett, Oliver J., SATC	Imperial, Cal.
Haiber, Fred Helsey, SATC.	Pasadena, Cal.
Hand, Theodore William, SATC.	East Bakersfield, Cal.
Handcock, Thomas, SATC.	San Jacinto, Cal.
Hatcher, Abell Perry, S.	Redlands, Cal.
Harkness, Frances, F.	Redlands, Cal.
Harper, Leon Cecil, SATC.	Los Angeles, Cal.
Hartog, Mary Korine, Sp.	Loma Linda, Cal.
Harvey, Mary Rachael, Sr.	Long Beach, Cal.
Haslam, B. Everett, SATC.	Santa Barbara, Cal.
Hasty, Charles Gerald, SATC.	San Diego, Cal.
Hawkins, Duane Augustin, SATC.	Chula Vista, Cal.
Hedstrom, Helen S., F.	Anaheim, Cal.
Hemenway, D. Fraser, J.	Riverside, Cal.
Henderson, Ernest William, F.	Redlands, Cal.
Higgins, Charles A., SATC., F.	National City, Cal.
Hindley, Lewis Norton, SATC.	Long Beach, Cal.
Holmes, Stanley, F.	Oakland, Cal.
Honey, Oakley Albert, SATC.	Santa Barbara, Cal.
Horton, Lillian Louise, F.	Pomona, Cal.
Hotchkiss, Lucile, S.	Hollywood, Cal.
Hubbard, Mrs. Herbert, Mu.	Redlands, Cal.
Hughes, Emery Clifton, SATC.	Parlier, Cal.

Husted, Cecile Alice, F.	Corona, Cal.
Inglis, Roscoe, SATC	Oxnard, Cal.
Inocencio, Felipe, J.	Philippine Islands
Jones, Nona Edna, Mu.	San Bernardino, Cal.
Johnson, Lucile, S.	Redlands, Cal.
Johnson, Marie, J.	Redlands, Cal.
Johnson, Ruth Frances, Sr.	Ogden, Utah
Jones, Paul Avery, SATC.	San Diego, Cal.
Karns, Sherman Stewart, SATC.	National City, Cal.
Kendall, Talbot Parker, F.	San Diego, Cal.
Kerfoot, George Franklin, SATC.	Lemon Grove, Cal.
Kernan, William Charles, SATC., F.	Hollywood, Cal.
Kerr, Gladys E., S.	Coalinga, Cal.
Kilby, Colon O., SATC., S.	Coalinga, Cal.
Kling, Margaret Hulbert, Sr.	Santa Monica, Cal.
Kincher, Helen B., J.	Redlands, Cal.
Knox, Irene, F.	Redlands, Cal.
Kubias, Rudolph Moulton, SATC., F.	Redlands, Cal.
LaBar, Eva, J.	Porterville, Cal.
Lackey, Dick, S.	Long Beach, Cal.
Lamb, Gilbert C., SATC.	Redlands, Cal.
Langley, George Babbitt, SATC.	San Bernardino, Cal.
Larsen, Ernest Robert, F.	Selma, Cal.
Larson, Roy Walter, F.	Kingsburg, Cal.
Lehigh, Helen A., S.	Phoenix, Ariz.
Levering, Lucy, Sp.	Redlands, Cal.
Long, Loren, SATC.	Pasadena, Cal.
Loper, Harold, SATC., S.	Redlands, Cal.
Lovelace, W. Floyd, SATC.	San Diego, Cal.
Lyon, Lois Mabel, J.	Redlands, Cal.
MacMillan, Mildred, F.	Blythe, Cal.
MacMillan, Stuart Barclay, SATC., F	Pasadena, Cal.
Marchant, Loia Mildred, S.	Tustin, Cal.
Marsh, Doris Gertrude, Sp.	Redlands, Cal.
Maynard, David Perry, SATC., S.	Redlands, Cal.

McAllister, Mildred Adelaide, Sp.	San Bernardino, Cal.
McGarvey, Frank L., SATC.	San Bernardino, Cal.
McPhee, Claire Christine, S.	Santa Paula, Cal.
McPhee, Douglas Gordon, F.	Santa Paula, Cal.
Merrill, John Horace, SATC.	San Diego, Cal.
Miller, Helen Lenore, S.	Los Angeles, Cal.
Mills, Maude, F.	Redlands, Cal.
Mitchell, Dorothy Lillian, S.	San Luis Obispo, Cal.
Mitchell, Donald Harlow, Sr.	San Luis Obispo, Cal.
Mitchell, Sherleigh A., Sp.	San Luis Obispo, Cal.
Mosher, Dorothy E., S.	San Diego, Cal.
Mullen, Frances Elizabeth, Sp.	Redlands, Cal.
Murphy, Ruth Elizabeth, S.	San Pedro, Cal.
Nelson, Dorothea Eckstorm, J.	Redlands, Cal.
Nelson, Frank Roy, SATC.	Los Angeles, Cal.
Neilson, Lester Ralph, F.	Fowler, Cal.
Noble, Richard George, SATC.	National City, Cal.
Norton, John St. Clair, SATC.	Bonita, Cal.
Noyes, Clifford L., SATC.	Long Beach, Cal.
Nunn, Janie C. L., Sp.	San Bernardino, Cal.
Ogburn, A. Gerald, SATC., S.	Redlands, Cal.
Ogden, Colin Robarts, SATC., F.	San Diego, Cal.
Olsen, Ethel E., Mu.	Redlands, Cal.
Parker, Sara, F.	Needles, Cal.
Phillips, Marjorie Alma, Sr.	Gravette, Arkans.
Porter, Mrs. G. Ellis, Mu.	Riverside, Cal.
Potter, Emery R., SATC.	Covina, Cal.
Poulsen, C. Leonard, Sp.	Pasadena, Cal.
Powell, Harlow, SATC., F.	Fresno, Cal.
Powell, Herbert, J., J.	Redlands, Cal.
Pugh, Gwladys Jane, F.	Redlands, Cal.
Pushman, Abbe, Mu.	Riverside, Cal.
Putnam, L. Marjorie, F.	Redlands, Cal.
Randall, Clyde Lomus, SATC., F.	San Diego, Cal.
Reid, Clyde Carson, SATC., S.	Reedley, Cal.

Reynolds, Raymond I., SATC., F. ....Redlands, Cal.
Richards, Walter John, SATC., S...............Pasadena, Cal.
Richardson, Ackley Albert, SATC., F. ....Nat'l City, Cal.
Richardson, Tom Brown, SATC. ....Los Angeles, Cal.
Roach, John Warren, SATC., F. ....Redlands, Cal.
Ross, Charles Blake, SATC., F. ....San Diego, Cal.
Rumsey, Winnifred, Mu. ....San Bernardino, Cal.
Russell, Thomas A., SATC. ....San Diego, Cal.
Rutherford, James Leroy, SATC. ....San Diego, Cal.
Sager, Clara, ... J. ....Winters, Cal.
Sallee, Margaret Ruth, S. ....LaVerne, Cal.
Salvage, William Louis, SATC. ....Beaumont, Cal.
Sater, Lenore Esteline, J. ....Danville, Iowa
Sater, Roma Margaret, S. ....Danville, Iowa
Sawyers, Ruth Leona, J. ....Santa Barbara, Cal.
Scealey, Ferdinand, F. ....Craftonville, Cal.
Scott, Harold Hall, SATC., S. ....Redlands, Cal.
Seal, Harold Finch, SATC., J. ....Redlands, Cal.
Seamans, Gertrude I., Sp. ....Yuma, Cal.
Sievert, Guilo Ellsworth, F. ....Alhambra, Cal.
Sievert, Leo Ellsworth, Sr. ....Alhambra, Cal.
Slocum, Roy Friend, SATC. ....Redlands, Cal.
Slutsk, Jacob, SATC., F. ....San Diego, Cal.
Smart, Dewey Hampton, SATC......San Bernardino, Cal.
Smith, Cleon H., J. ....Redlands, Cal.
Smith, Chas. Davenport, F. ....Redlands, Cal.
Smith, Dwight, O., SATC., F. ....Long Beach, Cal.
Smith, Hazel, F. ....South Pasadena, Cal.
Smith, Howard Saunders, SATC. ....Long Beach, Cal.
Smith, Horace Harvey, SATC., S. ....Selma, Cal.
Smith, Irene Beavers, Sr. ....Redlands, Cal.
Smith, Marjorie E., F. ....Redlands, Cal.
Smith, Sidney Hall, SATC. ....Sanger, Cal.
Snell, Beryl Esther, S. ....Redlands, Cal.
Sohn, Joel Ernie, SATC. ....Long Beach, Cal.

Sommer, Flora, S.	South Pasadena, Cal.
Sowell, Kathryn Marie, F.	Lemoore, Cal.
Springston, Christine, F.	Portland, Ore.
Stewart, Cecil C., SATC., F.	Corona, Cal.
Stickles, Harriet B., S.	Clovis, Cal.
Stipe, Homer Roy, SATC.	Cucamonga, Cal.
Stockton, Georgia, F.	Redlands, Cal.
Stower, Emma Katherine, F.	Beaumont, Cal.
Stuart, Francis Eugene, SATC., F.	Exeter, Cal.
Summers, John Everett, SATC., F.	Clay, West Va.
Swett, Donald Benjamin, Sp.	Redlands, Cal.
Taggart, Thurston Amos, SATC.	Redlands, Cal.
Tattersall, Kenneth Lysander, SATC., F	Nat'l City, Cal.
Taylor, Floyd Sens, SATC., S.	Redlands, Cal.
te Groen, Dick, SATC., F.	Long Beach, Cal.
Thomas, Bert, SATC.	San Bernardino, Cal.
Thomas, Earle Elling, F.	Pasadena, Cal.
Thompson, Elizabeth Collins, S.	Turlock, Cal.
Thompson, Hollis Ring, SATC., J.	Turlock, Cal.
Thompson, Howard, SATC.	E. Bakersfield, Cal.
Tinker, Gwendolyn Maude, J.	Redlands, Cal.
Tinkham, Warren A., SATC., S.	Redlands, Cal.
Titus, Lona Alice, F.	Redlands, Cal.
Toeppler, Mrs. Edward, Mu.	Barstow, Cal.
Tolle, Glessner, J.	Redlands, Cal.
Trepte, Alwin, SATC.	San Diego, Cal.
Trine, Frank Leesyl, Sr.	Madera, Cal.
Troyer, William Carey, SATC., F.	Hollywood, Cal.
Truesdail, Roger Williams, SATC., S.	Redlands, Cal.
Turrill, Park Lovejoy, J.	Long Beach, Cal.
Untereiner, Raymond Edward, SATC., J.	Redlands, Cal.
Wagner, Florence June, S.	San Jose, Cal.
Waite, Mark R., SATC.	Redlands, Cal.
Walberg, Paul Victor, SATC.	Los Angeles, Cal.
Wall, Gladys B., J.	Selma, Cal.

Waterman, Chas. Merle, SATC., J.	Pasadena, Cal.
Wattawa, Dean, Mu.	Redlands, Cal.
Wattenbarger, Ora Belle, S.	Imperial, Cal.
Wedberg, Hilda Gustava, S.	Redlands, Cal.
Welsh, Henry Ward, SATC., F.	Los Angeles, Cal.
Welton, Frances E., Sp.	Redlands, Cal.
Wente, Edith, S.	Selma, Cal.
Wheat, Mildred Masten, Sp.	Redlands, Cal.
White, Reginald Ed., Sp.	Redlands, Cal.
Widney, Vincent, SATC., S.	Pasadena, Cal.
Wiese, Herbert Frederick, S.	Redlands, Cal.
Wilkes, Margaret, Sp.	Redlands, Cal.
Wilkinson, Clarence Stanford, SATC.	San Bernardino, Cal.
Williams, Alpha Eulala, F.	Phoenix, Ariz.
Williams, George L., Jr., SATC., F.	LaMesa, Cal.
Williams, Lawrence Richard, SATC.	Madera, Cal.
Willis, Caroline, Sp.	Redlands, Cal.
Wilson, Irl Clifford, SATC., Sr.	Redlands, Cal.
Wilson, Leliah Grace, Sp.	Redlands, Cal.
Wright, Florence, S.	Los Angeles, Cal.
Wright, Hortense Marian, F.	Hanford, Cal.
Yount, John Leroy, SATC.	Redlands, Cal.
Yount, William Joseph, SATC., S.	Redlands, Cal.
Zediker, Everest P., SATC., F.	Pasadena, Cal.

College Students Enrolled	230
SATC.	131
Total	361
Counted twice, SATC. and College	63
Net Enrollment	298

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BULLETIN

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Annual Catalog

Vol. X MAY, 1920 No. 1

PUBLISHED QUARTERLY BY THE
UNIVERSITY OF REDLANDS

UNIVERSITY
of REDLANDS

Twelfth
Annual Announcement

Redlands, California
1920-1921

Entered as Second-Class Matter, May 1, 1911,
at the Postoffice at Redlands, California,
Under the Act of July 16, 1894

FACTS COMMERCIAL PRESS
REDLANDS, CAL.

CALENDAR

1920

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.		Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
July					1	2	3	**Oct.**						1	2
	4	5	6	7	8	9	10		3	4	5	6	7	8	9
	11	12	13	14	15	16	17		10	11	12	13	14	15	16
	18	19	20	21	22	23	24		17	18	19	20	21	22	23
	25	26	27	28	29	30	31		24	25	26	27	28	29	30
									31						
Aug.	1	2	3	4	5	6	7	**Nov.**		1	2	3	4	5	6
	8	9	10	11	12	13	14		7	8	9	10	11	12	13
	15	16	17	18	19	20	21		14	15	16	17	18	19	20
	22	23	24	25	26	27	28		21	22	23	24	25	26	27
	29	30	31						28	29	30				
Sep.				1	2	3	4	**Dec.**				1	2	3	4
	5	6	7	8	9	10	11		5	6	7	8	9	10	11
	12	13	14	15	16	17	18		12	13	14	15	16	17	18
	19	20	21	22	23	24	25		19	20	21	22	23	24	25
	26	27	28	29	30				26	27	28	29	30	31	

1921

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.		Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
Jan.							1	**Apr.**						1	2
	2	3	4	5	6	7	8		3	4	5	6	7	8	9
	9	10	11	12	13	14	15		10	11	12	13	14	15	16
	16	17	18	19	20	21	22		17	18	19	20	21	22	23
	23	24	25	26	27	28	29		24	25	26	27	28	29	30
	30	31													
Feb.			1	2	3	4	5	**May**	1	2	3	4	5	6	7
	6	7	8	9	10	11	12		8	9	10	11	12	13	14
	13	14	15	16	17	18	19		15	16	17	18	19	20	21
	20	21	22	23	24	25	26		22	23	24	25	26	27	28
	27	28							29	30	31				
Mar.			1	2	3	4	5	**June**				1	2	3	4
	6	7	8	9	10	11	12		5	6	7	8	9	10	11
	13	14	15	16	17	18	19		12	13	14	15	16	17	18
	20	21	22	23	24	25	26		19	20	21	22	23	24	25
	27	28	29	30	31				26	27	28	29	30		

Contents

Accrediting by U. of C. and Stanford 37
Admission—College of Liberal Arts 26
    College of Fine Arts 81
Advanced Standing 28
Art Department 89
Astronomy 41
Athletics 71
Athletic Park 25
Biblical Studies 41
Biology 42
Board and Rooms 32
Board of Trustees 8
Botany 42
Buildings 19
Campus 18
Chemistry 44
Christian Associations 23
College Calendar 6
Colors 25
Concerts and Recitals 85
Courses—College of Liberal Arts 41
    College of Fine Arts, Music 90
    Art 89
Degrees—Baccalaureat—College of Liberal Arts 38
    College of Fine Arts 83
Departments of Instruction (see Courses of Study)
Diplomas—College of Liberal Arts 38
    College of Fine Arts—Music 81
Dormitories 21, 32, 34
Economics 46
Education 67
Engineering 47
English 49
Events of the Past Year 15
Expenses—College of Liberal Arts 83
    College of Fine Arts 87
    Dormitory 35
Faculty 10
Fees (see Expenses)
French 54
General Requirements, etc. 30
Geology 56
German 57

Grading 31
Graduates, 1919 99
Graduation (Requirements for)—College of Liberal Arts 38
College of Fine Arts 82
Greek 57
Gymnasiums 22
Harmony 93
Historical 18
History 59
History of Art 90
History of Music 92
Hygiene 62
Latin 63
Library 35
Literary Societies 24
Majors and Minors 39
Mathematics 65
Matriculation 29
Museum 36
Music (see College of Fine Arts)
Organizations 23
Philosophy 67
Physics 72
Physical Education 70
Piano 90
Political Science 73
Prizes 36
Publications 24
Public School Music 92
Public Speaking 54
Registration 29
Requirements for Graduation—College of Liberal Arts 38
College of Fine Arts 82
Rooms, Rental 35
Schedule of Recitations 77
Scholarships 31
Sociology 74
Spanish 75
Special Students 30
Standing Committees 14
Student Help 31
Theory 93
Trustees 8
Violin 94
Voice 96

College Calendar

1920

September 13th and 14th, Monday and Tuesday—Entrance examinations and registration for first semester.

Note—The Monday registration is especially intended for students living in and near Redlands

September 15th, Wednesday—First semester begins with Assembly, at 10:30 a. m.

November 25th, Thursday, to November 29th, Monday at 7:45 a. m., Thanksgiving recess.

December 17th, Friday—Christmas Vacation begins at 4:00 p. m.

1921

January 3rd, Monday—Christmas Vacation ends at 7:45 a. m.

January 25th to 28th inclusive—Examinations for first semester.

January 31st, Monday—Second semester begins at 7:45 a. m.

February 27th, Sunday—Day of Prayer for Colleges.

March 25th, Friday—Spring Vacation begins at 4:00 p. m.

April 4th, Monday—Spring Vacation ends at 7:45 a. m.

June 7th to 10th inclusive—Examinations for second semester.

June 11th, Saturday—Anniversary of the College of Fine Arts, Department of Music, 8:00 p. m.

June 12th, Sunday—Baccalaureate Sermon, 11:00 a. m. Service, 7:30 p. m.

June 13th, Monday evening—Annual Zanja Fiesta.

June 14th, Tuesday—Alumni meeting and banquet, 11:00 a. m.
Semi-Annual Meeting of the Board of Trustees, 10:30 a. m.
Class Day.

June 15th, Wednesday—Commencement, 10:30 a. m.
College Dinner.

Board of Trustees

MEMBERS OF THE BOARD

TERM EXPIRING 1921

Mattison B. Jones, Los Angeles.
J. H. Merriam, Pasadena.
C. W. Brinstad, Oakland.
H. L. Moody, San Diego.
L. A. Boadway, Pasadena.
Weymouth Crowell, Los Angeles.
Mrs. W. H. Jameson, Corona.
G. Rupert Johnson, Pasadena.
Mrs. Mary P. Folkins, Redlands-Alumni Representative

TERM EXPIRING 1922

A. T. Currier, Pomona.
H. E. Wilkinson, Fresno.
J. Whitcomb Brougher, Los Angeles.
J. H. Strait, Redlands.
W. H. Fowler, Los Angeles.
W. F. Harper, Los Angeles.
Mrs. Martin Bekins, Los Angeles.
Harry L. Boardman, Riverside.
J. W. Curtis, San Bernardino.

TERM EXPIRING 1923

Arthur Gregory, Redlands.
W. F. Wood, Glendale.
Geo. D. Knights, Long Beach.
James A. Francis, Los Angeles.
F. C. Lovett, Napa.
Daniel Smiley, Redlands.
J. S. Runyan, Santa Ana.
F. O. Belden, San Diego.
C. W. Goodman, Phoenix, Ariz.

OFFICERS OF THE BOARD

Mattison B. Jones, President - - Los Angeles
722 Merchants' National Bank Building
L. A. Boadway, Vice-President - - Pasadena
268 East Colorado
J. W. Curtis, Secretary - - - San Bernardino
680 E Street
J. Margaret Swope, Assistant Treasurer, San Bernardino
Geo. P. Cortner, Business Manager - - Redlands

Executive Committee

W. H. Fowler, Chairman.
J. H. Merriam, Vice-Chairman
J. W. Curtis, Secretary.
J. H. Strait.
Geo. D. Knights.
Mattison B. Jones
L. A. Boadway

Faculty

College of Liberal Arts

VICTOR LEROY DUKE, A. M., LL. D., President.
University of Redlands, 1909—.
Residence, 155 E. Cypress Avenue.

A. HARVEY COLLINS, A. M., Registrar.
Professor of History.
University of Redlands, 1909—.
Residence, 522 Cajon Street.

JAMES W. KYLE, A. M.
Professor of Ancient Languages.
University of Redlands, 1909—.
Residence, 621 University Street.

S. GUY JONES, B. S.
Professor of Chemistry.
University of Redlands, 1909—.
Residence, 646 Cajon Street.

GEORGE ROBERTSON, A. B.
Professor of Biology and Geology.
University of Redlands, 1909—
Residence, 256 Alvarado Street.

HERBERT E. WISE, A. M.
Professor of Philosophy and Education.
University of Redlands, 1910—.
Residence, 614 Alvarado Street.

EDITH ABIGAIL HILL, A. B.
Professor of Modern Languages.
University of Redlands, 1910—.
Residence, 14 Clifton Avenue.

HERBERT EUGENE MARSH, B. S.
Professor of Physics and Engineering.
University of Redlands, 1912—
Residence, 618 East Fern Avenue.

EGBERT RAY NICHOLS, A. M.
Professor of English Literature.
University of Redlands, 1913—.
Residence, 814 Campus Avenue.

HOWARD C. TILTON, A. M.
Professor of Political and Social Science.
University of Redlands, 1914—.
Residence, 614 East Fern Avenue.

MARY LOUISE TODD, A. M.
Associate Professor of English.
University of Redlands, 1914—.
Residence, 211 East Colton Avenue.

EMMA KIRTLAND WHITON, A. M.
Professor of Mathematics.
University of Redlands, 1918—.
Residence, Terrace Hall.

MERLE HOPKINS DE PONT, A. B.
Instructor in French and Physical Education for Women.
University of Redlands, 1919—.
Residence, 146 Division Street.

ASHEL CUNNINGHAM, L.L. B.
Director of Physical Education.
University of Redlands, 1913—.
Residence, 824 College Avenue.

ELEANOR A. SYMMES, A. B.
Librarian.
University of Redlands, 1914—.
Residence, 510 Alvarado street.

College of Fine Arts

VICTOR LEROY DUKE, A. M., LL.D., President·

EZRI ALFRED BERTRAND.
Professor of Voice.
University of Redlands, 1919—
Residence, 425 Chestnut Avenue.

CHARLES HOWARD MARSH. A. A. G. O.,
Professor of Piano.
University of Redlands, 1919—
Residence, 602 East Fern Avenue.

JOSEPH ZOELLNER.
Professor of Violin.
University of Redlands 1919—
Residence, Los Angeles.

KATE WATKINS.
Instructor in Drawing, Painting, Modeling, Lecturer in History of Art.
University of Redlands, 1913—.
Residence, University.

Flora Cordelia Cook, Mus. Bac.
Instructor in Piano.
Instructor in Harmony and History of Music.
University of Redlands, 1913—.
Residence, Cypress Avenue.

Frances Annette Cartlidge.
Instructor in the Dunning System of Music.
Instructor in Piano and Public School Music.
University of Redlands, 1915—.
Residence, 720 Cedar Avenue.

HOUSE MOTHER

Mrs. Ola Finley .... Bekins Hall
University of Redlands, 1918

STANDING COMMITTEES

1920-21

The President is Ex-Officio a member of all Committees

Athletics—
S. Guy Jones, H. E. Marsh, Ashel Cunningham.

Credentials—
A. H. Collins, J. W. Kyle.

Christian Work—
H. C. Tilton, H. E. Wise, M. L. Todd.

Discipline—
H. C. Tilton, H. E. Wise, E. K. Whiton.

Dormitories—
H. E. Marsh, M. L. Todd, George Robertson.

Grounds—
J. W. Kyle, Geo. Robertson, Business Manager Geo. P. Cortner.

Library—
H. E. Wise, H. C. Tilton, E. R. Nichols and W. H. Fowler, from Board of Trustees.

Museum—
George Robertson.

Prizes—
J. W. Kyle, H. E. Marsh, M. L. Todd.

Publications—
A. H. Collins, E. R. Nichols, E. K. Whiton.

Schedule—
S. G. Jones, A. H. Collins, E. A. Hill.

Student Activities—
E. A. Hill, A. H. Collins, J. W. Kyle.

Events of the Past Year

June 20th, Friday—Commencement Concert of the College of Fine Arts, 8:00 p. m.

June 21st, Saturday—8:00 p. m., Reception by President and Mrs. Duke.

June 22, Sunday—11:00 a. m., Baccalaureate Sermon by Rev. Frank B. Matthews, Seattle, Wash.
7:40 p. m.—Address before the Christian Associations by Rev. J. Harvey Deere, D. D., Pomona, Cal.

June 23rd, Monday—10:30 a. m., Semi-Annual Meeting of the Board of Trustees.
10:30 a. m.—Alumni Meeting and Banquet.
3:30 p. m.—Class Day Exercises of the Class, 1919.

June 23rd, Monday—8:00 p. m., Students' Annual Zanja Fiesta.

June 24th, Tuesday—Commencement, 10:30 a. m.
Address by Rev. Jas. A. Francis, D. D., Los Angeles.
Conferring of Degrees by the President of the University.
12:30—Eighth Annual College Dinner.

During the present year, 1919-20, the University has been favored with a number of Assembly addresses and entertainments, as follows:

April 30th, 1919—Dr. S. L. Lasell, M. D., Medical Missionary, Hankow, China—Internationalship of China.

May 26th, 1919—Chaplain Bryant Wilson—The Greatest Thing in Our Army Experience.

October 8th, 1919—Dr. J. W. Brougher, Pastor Temple Baptist Church, Los Angeles—What's Under Your Hat?

October 16th, 1919—Dr. J. A. Francis, Pastor First Baptist Church, Los Angeles—Why I Favor the Covenant of the League of Nations.

October 30th, 1919—Superintendent H. G. Clement, Superintendent of Redlands City Schools—Value of Education.

November 12th, 1919—Mr. Ben Scovill, Entertainer among the Allies' Army Camps and Hospitals—Experiences in Front Line Hospitals.

November 26th, 1919—Dr. O. P. Gifford, Brookline, Mass.—Character.

January 13th, 1920—Laying of the Corner Stone of the Science Hall and visit of delegates of the Southern California Baptist Convention.

January 14th, 1920—Dr. S. G. Neil of American Baptist Publication Society—Character.

January 15th, 1920—Rev. Gordon Palmer, of South Park Baptist Church, Los Angeles—A Life of Activity.

February 12th, 1920—Dr. Samuel Zane Batten, Chairman of Committee on Social Service of Northern Baptist Convention—The Social Problem.

March 3rd, 1920—Dr. P. H. J. Larrigo—Christian Service.

March 9th, 1920—Jesse R. Wilson, Traveling Secretary of the Student Volunteer Movement—Why I Am a Student Volunteer for Foreign Missions.

March 18th, 1920—Dr. John Snape, Pastor First Baptist Church, Hollywood, California—The Regular Fellow.

March 24th, 1920—Dr. and Mrs. J. H. Scott, Missionaries at Osaka, Japan—The Message of the Students of the Orient to the Students of America.

March 25th, 1920—Dr. D. F. Estes, Professor of New Testament and Librarian, Colgate College—The Power of a Book.

University of Redlands

HISTORICAL

On the seventh day of December, 1906, the Baptists of Southern California, in Convention assembled in Berean Hall, Los Angeles, resolved to found and foster a high grade Christian college. A committee of twenty-one representative men was appointed to select the location for the college, manage the campaign for a Founding Fund and organize the institution.

The canvass for a Founding Fund of $300,000 was begun the first of September, 1907, and so hearty was the response that at the Convention held in Los Angeles in January, 1909, the Committee was able to announce the assured success of the movement.

The location of the college at Redlands was due both to the acknowledged fitness of the city as a home for such an institution and the generous offer of a campus of forty acres and $100,000 toward the Founding Fund. To the forty acres given by Redlands for a campus has since been added twenty-three acres, including the beautiful University Hill, now occupied by the Administration Building, the Hall of Science, and the President's residence.

The University of Redlands was incorporated under that title in 1907. On September 29th, 1909, less than three years from the time of the inception of the movement, the institution threw open its doors to the public.

The College of Liberal Arts was organized and continued thru the first semester of 1909-10 in the Bible School rooms of the First Baptist Church of Redlands.

In February, 1910, the ample Administration Building was occupied.

From the beginning a College of Fine Arts has been a prominent feature of the plans for the University. The work of this college was carried on in Bekins Hall until 1914, since which time the rapid growth of this college has made necessary the temporary adaptation of the President's official residence for the housing of this department. The permanent buildings of the College of Fine Arts are now being constructed at the North end of the quadrangle.

LOCATION

Redlands, the home of the University, is a beautiful city of 10,000 inhabitants, situated sixty-six miles east of Los Angeles, in the heart of the largest orange growing district in the world, and close to the San Bernardino mountains. On account of the elevation of 1400 feet, the city has as nearly an ideal climate as it is possible to find, sometimes touching the frost point in winter, warm in summer; but, even the warmest summer months, always having cool and restful nights. Steam, trolley and automobile transportation connect Redlands with Los Angeles and other nearby cities.

BUILDINGS

The College buildings, including those in process of erection, now number twelve, eight of which number are permanent, well-planned structures, modern and thoroly equipped. These buildings, of grey concrete with red tile roofing, form a picturesque group about the quadrangle, and comprise a substantial nucleus of a preconceived plan for a conveniently arranged and unusually attractive campus.

ADMINISTRATION BUILDING

The main building of the University scheme was completed in 1910. It is centrally located upon the crest of University Hill, affording a view of the campus and of a vast panorama of marvelously beautiful country. The massive structure and commanding position of this building make it an imposing land-mark. It contains the administrative and business offices, lecture and recitation rooms of the College of Liberal Arts and two assembly halls for meetings of the Christian Associations. Here also are to be found the temporary homes of the Library, the College Book-store and the Museum.

THE HALL OF SCIENCE

The corner stone of the new Hall of Science was laid January 13, 1920. This building costing $125,000, is a reinforced concrete structure. It is fire-proof, well lighted and properly ventilated.

The departments of Physics and Engineering occupy the first floor. This contains two lecture rooms, fully equipped mechanical drawing and blue print rooms, a balance room, the departmental library and three laboratories, for general, optical, and electrical work. Special features of the general laboratory are an experimental switch board for both direct and alternating currents and tubes supplied with electrical connections, gas and compressed air. The second floor is devoted entirely to the departments of Biology and Geology. There are four Biological laboratories, two for Botany and two for Zoology; a Geological laboratory, two lecture rooms and three stock rooms. The third floor is devoted exclusively to the department of Chemistry. Here are four laboratories for the study of General, Quantitative, Organic, and Physical Chemistry. Other special features of this floor are the departmental library, two balance rooms, stock rooms and a photographic dark-room.

THE FINE ARTS BUILDING

Two buildings now in process of erection at the North end of the quadrangle are to be devoted exclusively to music and art. According to the campus plan these buildings are later to be joined by colonades to an auditorium which will offer seating capacity for about 1200.

WOMEN'S DORMITORIES

BEKINS HALL

Bekins Hall, the gift of Mr. and Mrs. Martin Bekins, of Los Angeles, was completed and occupied in October, 1910. The building is classic in architecture and absolutely fireproof in construction. It contains rooms for the accommodation of fifty-six young women, besides reception rooms, dining hall and kitchen, and a specially equipped laundry. Many of the rooms are connected with private baths. Ample verandas and a roof garden foster out-door life.

Through the generous gift of a friend, a much felt need of the University is being met by a second dormitory for women, now being constructed North of Bekins Hall. The architectural plan is similar to that of the latter building. The new dormitory will accommodate fifty-two women, and is to be ready for occupancy by September, 1920.

MEN'S DORMITORIES

The new dormitory for men which will be occupied in the spring of 1920, is located on the east side of the quadrangle and near to the athletic field. The building will afford an attractive and comfortable home for fifty-six men. Each floor is equipped with shower baths. Club and game rooms, a large dining room and a kitchen occupy the lower floor.

REAVIS HALL

Reavis Hall, a second men's dormitory named in honor of the late Benjamin H. Reavis, of Orange, Cal., provides accommodations for about eighteen men.

THE PRESIDENT'S HOME

To the east of the Administration Building, on University Hill stands the spacious and attractive home of the President. The fund for this building was largely the gift of the late Mrs. Julia A. Libby of Santa Ana, California.

ASSEMBLY HALL

Among the shady trees bordering the Zanja is the Assembly Hall, erected in the fall of 1918. The hall is provided with stage and dressing rooms.

In addition to its use for the daily assembly of faculty and students, it furnishes a center for social and literary entertainments.

WOMEN'S GYMNASIUM

Just south of the President's residence stands the gymnasium for women. The building contains dressing rooms, sanitary showers and a gymnasium floor space 32x60 feet. The building is provided with a complete equipment for calisthenics and light gymnastics.

MEN'S GYMNASIUM

At the northeast corner of the Campus and beyond the athletic field stands the new Gymnasium for men. It consists of two units; the first containing showers, dressing rooms and lockers, the second and adjacent to the first is the gymnasium proper with a floor space 40 feet by 45 feet for measurements, apparatus and rooms for visiting teams; a game and calisthenic floor 40 feet by 75 feet, also seating for about 400 spectators. All well lighted and ventilated.

Organizations

ASSOCIATED STUDENT BODY

The Associated Student Body is composed of all the students matriculated in the two colleges of the University. Its officers are chosen by the student body from their own number. Regular meetings are held each week to deal with matters of general interest to all students.

PI KAPPA DELTA

The University of Redlands has a chapter of Pi Kappa Delta, a forensic honor society organized among colleges of the Middle West in January, 1913. All orators and debaters who represent the institution in intercollegiate contests are eligible to membership and are elected upon application. The organization confers an honorary key which is jewelled to show the achievement in forensics attained by the wearer.

CHRISTIAN ASSOCIATIONS

Branches of the College Departments of the Young Men's Christian Association and the Young Women's Christian Association are doing active and effective work. Each association holds a weekly meeting. Representatives from the societies are sent to the Bible and General Conferences for Colleges. The good effect of these Christian organizations is very marked in the daily life of the student body. Every encouragement and assistance is given these organizations by the faculty.

COLLEGE GLEE CLUBS

The Men's Glee Club of the University in its fourth year of organization has grown in popularity. A successful trip was made thru portions of Southern California during the Spring vacation.

The Women's Glee Club of the University, organized in 1917, comprises some 20 splendid voices. With the Director the Club gave several successful entertainments thruout Southern California during the spring vacation.

LE POSTE D' ECOUTE

The literary societies for women, formerly in existence, have been merged under the name Le Poste d' Ecoute, the listening posts from which information concerning the enemy is sent back thru the communicating trenches.

According to the name, the objects of this organization are to promote interest and alertness in all cultural lines and to promote literary, social and patriotic standards among the women of the University.

Membership is open to the women of the University who maintain a high standard of excellence in their work.

HELLENIC CLUB

The Hellenic Club, including all students of Greek, meets Friday afternoons twice a month for conversation in Modern Greek and reading stories. Greek cookery is illustrated in the refreshments.

COLLEGE PUBLICATIONS

The University of Redlands publishes a quarterly bulletin, one number of which is the annual catalog. The other three are devoted to special studies and reports of officers and other matters of importance.

STUDENT PUBLICATIONS

The Campus, a weekly paper published by the Associated Student Body through an elected staff, is an exponent of the student life and activities of the University.

LA LETRA

La Letra, The University Annual, is published by a special staff chosen by the student body and is devoted to the features of the University life for the year.

The Annual comes from the press about June First of each year, and is eagerly awaited by all those connected with the University.

COLORS

The official colors of the University of Redlands are Maroon and Silver Gray.

ATHLETIC PARK

The athletic park is enclosed and contains a 220-yard straight-away and a circular four-lap track, both in excellent condition. Inside the circular track the football and baseball fields are laid out.

College of Liberal Arts

ADMISSIONS

Every student, unless he brings a certificate of proficiency from an accredited school, shall before entering any class in the collegiate department, be examined upon the following subjects required for entrance:

In the College of Liberal Arts the University of Redlands offers courses leading to the Bachelor of Arts and the Bachelor of Science degrees with the following:

FIXED ENTRANCE REQUIREMENTS

Leading to Bachelor of Arts

English	2 units
A Foreign Language	2 units
Algebra	1 unit
Plane Geometry	1 unit
History	1 unit
Natural Sciences	1 unit
(This must be a laboratory course)	
Additional from subjects 1-34, page 28	4 units
Electives	3 units
Total	15 units

Leading to Bachelor of Science

	English	2 units
	A Foreign Language	2 units
	Mathematics	3 units
	History	1 unit
(1)	Physics	1 unit
(1)	Chemistry	1 unit
(1)	Additional Science	1 unit
	Additional from subjects 1-34, page 28	1 unit
	Electives	3 units
	Total	15 units

NOTE:—The candidate must have chosen his work so as to present at least 4 units of work which is generally regarded as belonging to the 3rd and 4th years of the High School Curriculum.

(1.) A student presenting only two of these three units, but an extra unit in either Mathematics or Foreign Language, will be entered without condition, but must elect the equivalent science course in the College. This shall not reduce the total amount of work required in these subjects for graduation.

In the list of subjects enumerated above the term unit is employed to signify the amount of preparatory work done in a given subject during a school year.

ADMISSION BY CERTIFICATE

Graduates of approved high schools or academies will be given credit for any of the subjects listed below in which they are recommended. Blanks for such recommendation will be furnished on application to the University, and it is expected that all applicants for admission, without examination, will use them.

In the list of admission subjects enumerated below the term unit is understood to represent five recitations per week of forty-five minutes each, four recitations per week of sixty minutes each throughout one school year, or equivalent. A detailed description of the essential subjects may be found in the printed lists of the American College entrance requirements.

1.	English, Elementary	2	19.	German, Elementary	2
2.	English, Advanced (3rd yr.)	1	20.	German, Intermediate	1
3.	English, Advanced (4th yr.)	1	21.	German, Advanced	1
4.	Algebra, Elementary	1	22.	French, Elementary	2
5.	Algebra, Intermediate	½	23.	French, Intermediate	1
6.	Plane Geometry	1	24.	French, Advanced	1
7.	Solid Geometry	½	25.	Spanish	2
8.	Plane Trigonometry	½	26.	Physics	1
9.	Ancient History	1	27.	Chemistry	1
10.	Mediaeval and Modern His.	1	28.	Botany	1
11.	English History	1	29.	Zoology	1
12.	History and Gov't of U. S.	1	30.	Physiology	1
13.	Economics	½, 1	31.	Physical Geography	1
14.	Latin, Elementary & Cæsar	2	32.	General Science	1
15.	Cicero & Latin Composition	1	33.	Free-hand Drawing	½, 1
16.	Vergil & Latin Composition	1	34.	Mechanical Drawing	½, 1
17.	Greek, Elem. & Xenophon	1	35.	Music	½, 1
18.	Homer and Greek Comp.	1	36.	Vocational Subjects	1, 2,

Half units will be accepted only when presented in addition to a whole unit in the same subject or in closely allied subjects, such as economics and history, except in industrial arts, agriculture, music, etc., as indicated above.

One year of a foreign language will not be accepted until supplemented by an additional year of the same language in the University of Redlands.

ADVANCED STANDING

If a student upon entering the University can present more than sixteen units, he may apply for advanced standing on the excess of units above that number.

The granting of advanced standing, in any department, is dependent upon the recommendation of the head of that department, who also reserves the right to examine the applicant, in the subjects in which advanced credit is sought, before making any recommendation.

Credit without examinations for work done in other institutions will be granted only upon receipt of a satisfactory certificate mailed to the University of Redlands by the proper official of the institution in which the work was done.

A student from another institution of equal scholastic rank may be admitted to advanced standing in the University upon presentation to the committee having charge of credits satisfactory evidence of having completed the work claimed, together with a certificate of honorable dismissal.

Students failing to satisfy any of the above requirements for admission may be received on condition, but such condition must be removed before said students are admitted to the Junior Class.

MATRICULATION AND REGISTRATION

Each student desiring to register is required to present himself to the President, who will advise with him and direct him to the registration committee and the Registrar.

Students are urged to register on the designated registration days. Absences from classes are counted from the day on which instruction begins. The student, within one week after registration day or at once, in case of late registration, must obtain from the Treasurer a card of admission to classes. No registration is complete until fees due the institution are paid or arranged for. Any student wishing to discontinue a course or in any way change his registration will proceed as in the original registration.

Students enrolled for the first semester and registering for the second semester will be expected to register during the month of January before the examinations for the first semester begin. An extra fee of one dollar, for late registration, will be charged the student whose registration is not completed during this period. No registration is complete until all fees due the University are paid or arranged for.

GENERAL REQUIREMENTS AND REGULATIONS

Persons not candidates for any degree may be admitted to the University as special students, provided they are of mature age and give the Faculty satisfactory evidence that they are properly qualified to do work creditably and with profit.

Special students may select their studies without reference to the sequence of courses, but otherwise are subject to the general regulations governing the student body. Such students may at any time become candidates for degrees by conforming to the regular requirements.

No student who has registered for regular work can change his status to that of a special student without permission from the Faculty.

A student withdrawing from the University before the work of any semester has been completed shall thereby forfeit all credits for that semester; but at the discretion of the instructor such student, upon returning to college, may resume a subject at the point dropped and carry it to completion.

No regular student is allowed to carry more than 18 hours or less than 12 hours, except by special action of the Faculty.

Those who represent the University in inter-collegiate activities, or in other capacities, or who are managers or editors of student publications or officers of the Associated Student Body shall be regular students and doing a passing grade of work in at least 12 hours.

Each student must take a final examination before receiving credit in any course, except that in the second semester a student completing the necessary work for a degree shall not be required to take an examination in those courses in which his daily grade for that semester is 90 per cent or above.

SCHOLARSHIP GRADING

The following system of grading is used in the University of Redlands:

A denotes a good grade of work.
B " average work.
C " passing, but poor.
D " conditioned.
E " failed.

A condition in any course may be removed before the course is again offered in accordance with the requirements made by the instructor concerned. A fee of $2.00 is charged for each extra or special examination, except that if a student is forced to be absent from all the examinations of the semester, the fee for the entire number shall not exceed $5.00.

SCHOLARSHIPS—STUDENT AID

A number of scholarships have been endowed by friends of the University, the income derived from such funds being devoted to defraying the tuition fees in the College of Liberal Arts of the students to whom they are assigned. These scholarships are awarded to those students who are in need of aid in securing a college education. In the awarding of these scholarships, the grade of work which has been done and is being done by the student is taken into consideration. A student receiving such aid is expected to conduct himself in a way which is for the best interest of the institution. He may be asked to render some light service to the institution which will not interfere with his studies.

The University aids some students by work about the campus and in the buildings and co-operates with students in securing work about the city. Students who are thus helped are expected to give value received and to co-operate in maintaining a good spirit in the University.

Inquiries regarding this matter should be addressed to the University of Redlands.

DORMITORIES, ROOM AND BOARD

All students who are not living at home with their families or immediate relatives are required to live in the college dormitories, unless excused by the Faculty. The dormitories are of re-enforced concrete construction, fire proof, equipped with all the modern conveniences and well furnished. Special attention has been given to ventilation in keeping with the climatic conditions in Southern California. In each dormitory there is a well equipped laundry with stationary tubs, electric irons and other conveniences for the use of the house. Provision is made for the social life of the students in the reception halls, the club rooms and the recreation rooms. Each building is in charge of a competent house-mother or proctor, who takes a personal interest in the individual student. It is the purpose of the management to approximate as nearly as possible home life in these dormitories.

A reservation for the academic year 1920-21 may be made at any time by depositing five dollars with the University.

This deposit will be credited toward the payment of the room rent for the first semester. Should a student cancel the reservation the fee will be refunded provided such cancellation is made before September first of that year.

EXPENSES

For prices for room and board see Expenses.

It is believed that the necessary expenses at the University of Redlands are as low as is consistent with the high character of the work done. The following schedule will serve to indicate the principal items:

Matriculation Fee: Payable once, at time of first registration:	
College of Liberal Arts and Fine Arts	$5.00
Tuition per semester, payable in advance:	
Colleges of Liberal Arts	$48.00
Registration Fee per Semester:	
College of Liberal Arts and Fine Arts	$2.00
Graduation Fee	$5.00
Laboratory Fees:	
Chemistry, for each course, per semester	$8.00
Biology, for each course, per semester	$2.00
Physics, for each course, per semester	$5.00

A deposit of five dollars ($5.00) is required in Chemistry to cover breakage. This deposit, less cost of breakage, is refunded at the end of the year.

No breakage deposit is required in Physics, but an account is kept of all breakages and a charge is made therefor.

Students carrying not more than five hours of work will be charged one-third of the regular tuition fee; those carrying from six to ten hours inclusive, will be charged two-thirds of the regular fee, and those carrying more than ten hours will pay the full fee.

Students preparing for the ministry and children of ministers and missionaries will be granted a discount of 50 per cent on tuition fees in the College of Liberal Arts.

For charge in case of special examination see page 31.

Special attention is called to the fact that the charge for tuition includes gymnasium, library and all incidental fees other than the matriculatin, registration and graduation fees, and those pertaining to laboratory courses.

No student may attend classes for more than one week after the regular registration day without having made satisfactory arrangements with the treasurer concerning all monies due the University.

DORMITORIES

It is the purpose of the Board of Trustees of the University of Redlands to furnish board and room to the students at a rate as low as is consistent with proper living conditions. They feel that the accommodations should be up to standard in every way. The surroundings should be pleasant. The food should be wholesome and there should be a sufficient supply. The prices have been fixed with the intent that the bare running expenses of these departments shall be met. These prices are subject to change should there be any decided change in living costs.

The majority of the rooms in the dormitories are arranged for two occupants. The beds are single and provided with mattresses six feet two inches by three feet and pillows twenty-three by thirty inches.

Each student is expected to furnish bed covers, linen, towels, etc.

Room rent is payable in advance by the semester. If the student is forced to leave before the end of the semester on account of illness, a fair adjustment will be made.

All dormitories have baths on each floor. In the women's dormitories there are some rooms with bath adjoining.

ROOM RENT

Room without bath adjoining, each occupant, per semester	$30.00
Room with bath adjoining, each occupant, per semester	$42.50

In one of the dormitories for women there are a few less desirable rooms which are rented for Twenty Dollars per semester for each occupant.

TABLE BOARD

The price for table board is Twenty-four Dollars ($24.00), per month. If payment for the semester is made in advance a discount of three per cent is allowed.

The dormitories will be open for students for the academic year 1920-21 September 11 and will be closed at the end of the year June 16.

The dormitories will be closed during the Christmas vacation from Saturday evening, December 18 to Saturday, January 1 and during the Spring vacation from Saturday evening, March 26th to Saturday evening, April 2nd, unless a number of students desire to remain, in which case arrangements must be made with those in charge of the dormitory at least ten days before the beginning of the vacation period.

The necessary expenses, including room, board, tuition, books, will average about $375 to $400 for the year.

LIBRARY

The library of 8500 volumes and several thousand unbound magazines and pamphlets, contains especially well selected works on all subjects included in the curriculum.

Moreover, through the courtesy of the A. K. Smiley

Public Library of Redlands, with 34,550 volumes, the University Library is a depository, thruout the college year, for such books as the different departments may from time to time require.

THE MUSEUM

The departments of Geology and Biology are fortunate in the possession of a very large and rare collection of minerals, shells, fossils, insects and birds. These specimens are being temporarily housed in the Administration Building. Among the more important exhibits are the collection of shells given by Mrs. H. A. Bates; the collection of minerals and fossils given by Dr. J. D. Easter; some valuable duplicate fossils of the La Coe Collection of the Smithsonian Institute; an indefinite loan from the City of Redlands of the Mrs. Francis A. L. Smith collection of shells, fossils, and birds from all parts of the world and a collection of California birds, minerals and fossils obtained from the California College formerly at Oakland. The Reverend Edwin MacMinn, D. D., recently presented to the University a collection of minerals and fossils comprising one of the largest and most valuable privately owned mineralogical exhibits in the United States. The University also has the permanent use of the collections belonging to Professor George Robertson and of the Sharp Collection of insects indigenous to the Philippine Islands.

PRIZES

The following prizes have been offered to the students of the University for the year 1919-20 to be awarded on Commencement Day:

1. For the best original oration delivered by a regular student of the University of Redlands at the annual Oratorical Contest, on the third Friday of January, a gold medal or a prize of $25 is offered by the President of the

Board of Trustees of the University, Mr. Mattison B. Jones, of Los Angeles.

2. For the best extempore speech delivered by a regular student of the University at the annual Contest in Extempore Speaking on the first Friday in December, a prize of $25 is offered by Mr. W. H. Fowler, of Los Angeles.

3. For general efficiency in college work, including scholarship and the various student activities a first prize of $10 and a second prize of $5 is offered by Prof. J. W. Kyle of the University.

4. For the most effective reading of selected passages from the Bible by regular students of the University at the contest on February 27th, a first prize of $10 is given by Prof. A. U. Thresher of Riverside and a second prize of $5 is given by Rev. Richard E. Day, of Riverside.

5. For the best essay on "Our Science Hall and Modern Education," not less than 2000 words, a prize of $5 is offered by Prof. George Robertson of the University. This contest is open only to members of the classes in Biology.

ACCREDITING

The work of the University of Redlands will be accepted by the University of California or Leland Stanford, Jr., University for admission to Sophomore, Junior, Senior or Graduate standing.

Harvard University and Columbia University have accepted our graduates to graduate standing without condition, as candidates for the Master's Degree.

Requirements for Graduation

Candidates for degrees will be required to recognize the sequence of courses in selecting their work unless excused by the Faculty.

No student shall be permitted to graduate from the College of Liberal Arts of the University who has not credit for at least 126 hours and who has not taken at least one year of the regular work at the University.

The required work leading to the different degrees is as follows:

BACHELOR OF SCIENCE

(1)	English	6-9 hours
	Mathematics	12 hours
	History	6 hours
	Sociology or Economics	3 hours
	Ethics	3 hours
	Psychology	3 hours
	Modern Languages	12 hours
	Physics	8 hours
	Chemistry	8 hours
	Additional Science	6 hours
	Physical Education	4 hours
	Hygiene	2 hours
	Total Required	73-76 hours
	Electives	53-50 hours
	Total	126 hours

BACHELOR OF ARTS

(1)	English	6-12 hours
	Mathematics	6 hours
(2)	History	6-10 hours
	Sociology or Economics	3 hours
	Ethics	3 hours
	Psychology	3 hours
	Science	8 hours
	Foreign Languages	6 hours
	Physical Education	4 hours
	Hygiene	2 hours
	Total Required	47-57 hours
	Electives	79-69 hours
	Total	126 hours

(1). Students who offer fewer than four entrance units in English will be required to take nine college hours in that subject for the B. S. degree and twelve for the A. B. degree.

(2.) Students who offer fewer than two entrance units in History will be required to take ten college hours in that subject.

In addition to the above requirements for the Bachelor of Arts Degree, the candidate must satisfy the conditions for a major as defined below.

Every candidate for a degree is required to select a major and signify the same to the Registrar and the head of the department in which he selects his major. Such selection may well be postponed until the Sophomore year but not later than that time, without special permission.

A major shall consist of twenty-four hours in one department, from courses classified by that department as majors and at least twelve hours must be from courses classified as "Junior and Senior."

As soon as a student has decided on a major he shall choose his minor in conference with the head of the department in which he has chosen his major.

A minor shall consist of at least nine hours from courses which may be counted toward a major in any department.

At least thirty-six hours of the courses carried during the Junior and Senior years shall be chosen from courses numbered 100 or above.

Departments of Instruction

The scheme of numbering the courses scheduled below and adopted by the University of Redlands is as follows:

Courses numbered from 1 to 99 are Lower Division Courses and are open to Freshmen and Sophomores and courses numbered 100 and above are Upper Division Courses and are open to Juniors and Seniors only, except by special permission of the Department.

ASTRONOMY

Emma Kirtland Whiton

1 AND 2. DESCRIPTIVE AND GENERAL ASTRONOMY
A study of the heavenly bodies, their constitution, laws of motion, physical properties and the processes by which man discovers these facts.
Prerequisite, Mathematics 1 and 2.
Three hours, both semesters.

BIBLICAL STUDIES

Herbert E. Wise

Crawford Professor of English Bible and Cognate Studies

101 and 102. Introduction to the Old Testament. A study of the origin, historical development, social messages, religious significance, and permanent value of the Old Testament.
Two hours both semesters.

*1. The Life of Jesus. Study is made of the historical situation, sources of the Synoptics, together with the religious development and characteristic traits of Jesus.
Two hours, first semester.

*2. The Social and Ethical Teachings of Jesus and their application to Modern Life.

Two hours, second semester.

*Omitted in 1920-21.

BIOLOGY

Geo. Robertson.

Courses 1 and 2 will not be accepted as majors.

1. AND 2. GENERAL BOTANY

The study will cover a general course in plant life, including lectures, recitations, laboratory and field work. The local flora is very rich in native and cultivated plants, suitable for study every month of the year. The work will be pursued along these lines (a) Morphological (especially the hystological phase), (b) Physiological, and (c) special Botany, a study of local flora, conditions of plant development, and a knowledge of the economic value of California plants.

Three lecture hours and one laboratory period, both semesters.

3 AND 4. GENERAL ZOOLOGY

A study of invertebrate animal life, the structure, development, classification and distribution. The study of insects will be specifically considered.

Especial attention is given to human physiology.

Three lecture hours and one laboratory period, both semesters.

*101. ANGIOSPERMS

The course deals with Phænogamic Botany, their Ontogeny and Phylogeny, their orders, morphology, physiology, habits of growth, geological history, geographical distribution and their economic values. Southern California types will be especially considered, and Palantological plant forms.

Prerequisite courses 1 and 2.

Two lecture hours and a laboratory period, first semester, with the addition of special courses of reading.

*103 AND 104. DENDROLOGY

The course in Forest Botany will consist of lectures, assigned reading and papers and laboratory work on trees and chapparal, their morphology, classification, geographical distribution, physiology, economic values and their relation to silviculture and arboriculture.

Prerequisite courses Biology 1 and 2.

Two lecture hours and one laboratory period both semesters.

105. ADVANCED INVERTEBRATE ZOOLOGY

Lectures, readings, laboratory work dealing with local invertebrate Zoology, their morphology, habits, distributions, life histories. Entomology will receive special attention.

Prerequisite courses 3 and 4.

Two lecture hours and one laboratory period, first semester.

106. ADVANCED GENERAL VERTEBRATE ZOOLOGY

The course will embrace a study of vertebrate animal structure anatomy and physiology, development, habits, variation and distribution. Dissection of selected type specimens, and special courses of reading with assigned papers will be required. Attention will be given to hygiene.

Prerequisite course 105.

Two lecture hours and one laboratory period, second semester.

*107 AND 108. PLANT ANATOMY AND PHYSIOLOGY

The course will deal with Morphology of the plant cell, tissue and organs, also microscopic technique.

The physiology of the cell and tissue of simple and complex plants and their ecology will be covered.

Prerequisites Biology 1 and 2.

Two lecture hours and two hours laboratory work, both semesters.

109 AND 110. PHYSIOLOGY AND HYGIENE

The course embraces the study of animal tissues, epithelial, muscular, connective, nervous and their functions. The physiology and hygiene of the tissues, organs of respiration, digestion, nutrition, reproduction and of the nervous system will receive special attention.

Prerequisites Biology 1, 2, 3, 4.

Three hours, both semesters.

*Note—Biology 101, 103, 104, 107 and 108 omitted 1920-21.

CHEMISTRY

S. Guy Jones

Courses 1 and 2 will not be accepted toward a major.

1 AND 2. ELEMENTS OF CHEMISTRY

An introductory course intended for those who do not offer matriculation Chemistry.

Two recitations and two laboratory periods, both semesters.

3 AND 4. GENERAL INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS

An advanced course in general and theoretical chemistry, accompanied by a laboratory course in qualitative analysis. Analysis for positive ions, first semester. Analysis for negative ions and determination of the composition of natural and commercial products, second semester.

Prerequisite, Matriculation Chemistry or Chemistry 1 and 2.

Two recitations and two laboratory periods, both semesters.

5 AND 6. QUANTITATIVE ANALYSIS

General methods of Gravimetric and Volumetric Analysis.
Prerequisite courses 3 and 4.
Three laboratory periods, both semesters.

101 AND 102. ORGANIC CHEMISTRY

A study of the compounds of Carbon. Laboratory work in the preparation of organic compounds and the study of their properties.
Prerequisite courses 3 and 4.
Two recitations and two laboratory periods, both semesters.

*103 AND 104. PHYSICAL CHEMISTRY

A course in the fundamentals of Physical Chemistry. The study of the properties of gases, liquids, solids and solutions. Also rate of chemical change and chemical equilibrium.
Two recitation-lecture periods and two laboratory periods, both semesters.

105 AND 106. INORGANIC PREPARATIONS

Study of the accepted methods of preparing the principal inorganic compounds.
Prerequisite courses 3 and 4.
Three laboratory periods, both semesters.

107 AND 108. STOICHIOMETRY

A course in Chemical Arithmetic, which should accompany or follow Chemistry 5-6.
One period, both semesters.

109 AND 110. ADVANCED QUANTITATIVE CHEMISTRY

An advanced course in quantitative manipulations and determinations. The aim of the course is to

obtain skill in quantitative manipulation and a knowledge of methods which will enable the student to quickly and easily become proficient in any of the several lines of quantitative analytical Chemistry.
Prerequisite, Chemistry 5 and 6.
Three laboratory periods, both semesters.

* 103 and 104 omitted 1920-21.

ECONOMICS

H. C. Tilton

31 and 32. Introduction to Economics

The development and significance of the characteristic features of economic life, the principles governing production, distribution and consumption and the practical economic problems of modern life.
Sophomore course.
Four hours, both semesters.

131. Industrial History

A brief survey of the origins of modern industry followed by a study of the economic development of the United States.
Three hours, first semester.

*132. Money and Banking

Principles of money; recent monetary history; functions of banks; development of the United States system of banks; present problems.
Prerequisite, 31 and 32.
Three hours, second semester.

*133. Labor Problems

History and development of organized labor, labor problems, and labor legislation.
Prerequisite, 31 and 32.
Three hours, first semester.

134. Introduction to Public Finance

The theory and method of taxation; management and expenditure of public funds; public debts.
Prerequisite, 31 and 32.
Three hours, second semester.

*136. Business Organization

The course deals with the nature and history of corporations and their significance in modern life. Attention is given to the problems arising from the growth of corporations and combinations, and to various remedies proposed.
Prerequisite, 31 and 32.
Three hours, second semester.
*Omitted 1920-21.

ENGINEERING

Herbert E. Marsh

A complete technical course in engineering is not offered at present. The following subjects are for the benefit of those who desire to complete their preparation for this profession after having obtained a broad cultural basis for the same.

1 and 2. Mechanical Drawing

Use and care of drawing instruments, free-hand and mechanical lettering, exercises in projection and simple drawing. Drawing accurately to scale plans, elevations, and sections from student's own measurements and free-hand sketches of simple machine parts.
Prerequisite, Plane Geometry.
Three drawing periods, both semesters.
This course may not be counted toward a major.

3 and 4. Topographical Drawing

This course is supplementary to Engineering 6,

and consists of a study of the forms and practice in the execution of the conventional alphabets used in lettering topographical maps and the individual conventional signs.
Prerequisite, Mechanical Drawing.
This course may not be counted toward a major.
Sophomore course.
Two two-hour drawing periods, both semesters.

5 AND 6. SURVEYING

The use, care and adjustment of the Surveyor's instruments. Field work; chain and tape surveying, transit, surveys, leveling, curves, etc.
Work of second semester, applied particularly to topographical surveying and mapping.
Sophomore course.
Prerequisite, Mathematics 2.
One recitation and two field (or drawing) periods both semesters.

7. DESCRIPTIVE GEOMETRY

A study of the principles which underlie orthographic projection, keeping in mind the importance of the ability to analyze a problem into its component parts and to reason from a given set of conditions to a required set of conclusions.
Prerequisite, Engineering 1 and 2.
Four drawing periods, first semester.

8. DESCRIPTIVE GEOMETRY

Continuation of 7, including single and double curved surfaces, shades and shadows, and the elements of perspective and isometric projection.
Four drawing periods, second semester.

101 AND 102. APPLIED MECHANICS

A study of the laws of statics and dynamics and their application to the various branches of engineering.
Prerequisite, Physics 3, and Mathematics 101 and 102.
Three recitations, both semesters.

103. MECHANICS OF MATERIALS

A study of mechanics of materials including elastic and ultimate strength, and elastic ultimate deformations, cases of simple stress, theory of beams, columns, and shafts; also a study of the principles of reinforced concrete and their application in various structures.
Prerequisite, Engineering 101 and 102.
Four recitations, first semester.

104. GRAPHIC STATICS

A study of methods of representing forces graphically and the application of the same in the determination of stresses in structures.
Prerequisite, Physics 3, Engineering 101, 102.
Recitation two hours and one drawing period, second semester.

ENGLISH

Egbert Ray Nichols
Mary Louise Todd

The aim of the English department is three-fold: (1) to train the students in the art of self-expression or English Composition, written and oral; (2) to give the student definite knowledge of the greater writers of English literature; and (3) to enable the student to appreciate and estimate in a measure by the higher standards of criticism the value and wealth of English literature.

The work of the department has been grouped under three heads. This division of the department is the logical and natural one of (A) Courses in Composition, (B) Courses in English Literature, and (C) Courses in Public Speaking.

From six to twelve units of English are required of candidates for the degree of Bachelor of Arts and from six to nine of candidates for the degree of Bachelor of Science, the first six of which must be courses 1 and 2, which are prerequisites to all others, except courses numbered from 50 to 100 and from 190 to 200.

Twenty-four hours in addition to the hours in courses 1, 2, 51, and 52 are required of students majoring in English.

All courses in Composition and Literature numbered from 101 to 190 may be counted toward a major in English. Only four hours from courses numbered 191 to 200 may be counted toward the English major.

Courses 103, 104, 51, 52, and 112 are required of all English majors.

Students expecting to major in English should present a program of study to the head of the department before the beginning of the Junior year.

A.—COURSES IN COMPOSITION

1 AND 2. RHETORIC AND COMPOSITION

A study of composition, oral and written, with regular practice in writing and speaking.
Freshmen course. May not be counted for major.
Three hours a week, both semesters. Mr. Nichols and Miss Todd.

103 AND 104. ADVANCED COMPOSITION

A course in composition designed for those who

wish to continue writing work beyond the Freshmen year. A regular schedule of writing is followed. Longer themes are required and more attention is given to criticism than in English 1 and 2. English 103 and 104 may be taken two years with full credit for each year. Required of English majors. Sophomore-Junior course.
Three hours a week, both semesters. Mr. Nichols.

B—COURSES IN ENGLISH LITERATURE

51 AND 52. HISTORY OF ENGLISH LITERATURE

The development of English Literature from Beowulf to the present time.
Required of students majoring in English. Either semester elective.
Three hours per week, both semesters. Miss Todd.

58. 19TH CENTURY AMERICAN LITERATURE

A survey course in the major poets and prose writers of America with a study of representative works. Elective.
Three hours per week, second semester. Miss Todd.

109. SHAKESPEARE

(a) An intensive study of three plays of Shakespeare, including Hamlet or Othello.
(b) A reading course in Shakespeare's plays up to the year 1600. A chronological order is followed. Collateral reading on the life of Shakespeare and his time.
Sophomore-Junior course.
Three hours, first semester. Miss Todd.

110. SHAKESPEARE

(a) As in English 109.
(b) A reading course in Shakespeare's plays sub-

sequent to the year 1600. A chronological order is followed. Thesis required.
Three hours, second semester. Miss Todd.

112. CHAUCER

A survey of the life and writings of Geoffrey Chaucer with special attention to the Canterbury Tales.
Required of English majors.
Three hours a week, second semester. Mr. Nichols.

*133. ENGLISH PROSE OF THE EIGHTEENTH CENTURY

The reading of prose selected from the works of Defoe, Swift, Addison, Steele, Johnson, Goldsmith, and Burke.
Three hours, first semester. Miss Todd.

141. MILTON

A study of the life and writings of Milton, with special emphasis upon Paradise Lost.
Three hours, first semester. Miss Todd.

151 AND 152. PROSE FICTION

The first semester is devoted to the history and development of the novel, and the second semester to the study of the technique and theories of prose fiction. The student is required to make frequent oral reports and one written report each semester. Eighteen novels from at least six different authors must be read to complete the course.
Three hours, both semesters. Mr. Nichols.

*154. THE NOVELS OF CHARLES DICKENS

A reading course with lectures upon Dickens' life and upon his methods and style. Frequent reports and a thesis are required.

Sophomore, Junior, Senior course.
Three hours, second semester. Miss Todd.

163. NINETEENTH CENTURY POETRY

The reading of selected poems from major poets, including Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson and Browning.
Three hours, first semester. Mr. Nichols.

*165. TENNYSON

A study of the life and writings of Alfred, Lord Tennyson. Thesis required.
Three hours, first semester. Mr. Nichols.

*166. BROWNING

A study of the life and writings of Robert Browning. Thesis required.
Three hours, second semester. Mr. Nichols.

*167. WORDSWORTH

A study of Wordsworth's poems, including a consideration of his poetic theory and practice.
Three hours, first semester. Miss Todd.

*174. NINETEENTH CENTURY PROSE

A study of selected masterpieces with special emphasis upon the works of Lamb, DeQuincey, Macaulay, Carlyle, Arnold, and Stevenson.
Three hours, second semester. Miss Todd.

181. MODERN DRAMA

A survey course in Modern Continental Drama with outside reading and reports, including Ibsen, Bjornson, Strindberg, Maeterlinck, Rostand, Brieux, Hauptman, Suderman, Schnitzler, Echegaray, d'Annunzio, and many others.
Three hours, first semester. Mr. Nichols.

182. Modern Drama

A survey course in Modern English, Irish, and American Drama with outside reading and reports and thesis, including Pinero, Jones, Galsworthy, Bennett, Barker, Synge, Yeats, Gregory, Howard, Thomas, Mackaye, and many others.
Three hours, both semesters. Mr. Nichols.

C.—COURSES IN PUBLIC SPEAKING

(Four hours only may be counted toward an English Major from courses in Division C.)

191 and 192. Argumentation and Debate

A study of the principles of debating, with exercises in brief drawing, writing speeches, and class debates.
Elective course. Should be taken by those desiring to enter Intercollegiate Debates.
Two hours a week, two semesters. Mr. Nichols.

193 and 194. Expression

An elementary course in expression leading to reading, oratory and public speaking and dramatics.
Elective.
Two hours, both semesters. Mr. Nichols.
*Omitted in 1920-21.

FRENCH

Edith A. Hill
Merle H. De Pont

All courses except French 1 and 2 and 11 may be taken as major courses.

1 and 2. First Year French

Special attention to pronunciation, writing and reading. Exercises in grammar. Grammar and texts suitable to the grade of work required, will be used.

Four hours, both semesters.

3 AND 4. SECOND YEAR FRENCH

Rapid review of grammar. Considerable opportunity is given for speaking the language, as but little English is used in the class room. Plays, novels and short stories of some of the greatest modern writers will be studied during the year.

Three hours, both semesters.

5 AND 6. CONVERSATION COURSE

Facts of daily life discussed. Designed to train students to speak and write the language with some facility.

Prerequisite, 1-2.

Two hours, both semesters.

11. FRENCH

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, phonetic transcription, etc.

Prerequisite, 1.

Three hours of laboratory, one hour credit, one semester.

*101 AND 102. FRENCH LITERATURE OF THE 19TH CENTURY

A lecture and reading course. Conducted entirely in French.

Prerequisite, 1-4.

Three hours, both semesters.

103 AND 104. FRENCH 17TH CENTURY POETRY AND PROSE

Lecture and reading course. Conducted entirely in

French. The principal authors of the classical period, Corneille, Moliere, Racine, La Fontaine, Boileau, etc., will be studied.
Prerequisite, 1-4.
Three hours, both semesters.

*101 and 102 omitted 1920-21.

GEOLOGY

Geo. Robertson

101. General Geology

Lectures, recitations, laboratory and field work. The study will include the salient and economic features of the science, giving a systematic and comprehensive knowledge of the most important teachings of Geology. The course will cover (a) Dynamical, (b) Structural, and (c) Historical Geology. Attention will be given to the Petrology and Crystalography of the common rocks and minerals.
Prerequisite, Biology 1-4.
Two lecture hours and one laboratory period of two hours, first semester.

GERMAN

Edith A. Hill

Mary Louise Todd

All courses except German 1 and 2 may be taken as major courses.

1 and 2. First Year German

Systematic training in simple conversation, narration and the elements of German grammar. Texts suitable for the work of the first year will be read.
Four hours, both semesters. Miss Todd.

3 AND 4. SECOND YEAR GERMAN

Reading of Lessing, Goethe, and Schiller.
Three hours, both semesters. Miss Todd.

5 AND 6. COMPOSITION AND CONVERSATION COURSE

A course in conversation, composition and sight reading.
Two hours, both semesters. Miss Todd.

101 AND 102. THIRD YEAR GERMAN

The German Novel. Frytag's Soll und Haben, Sudermann's Frau Sorge, and others.
Reading and discussion.
Prerequisite, 1-4.
Three hours, both semesters.

*103 AND 104. GERMAN LITERATURE

General survey of German Literature from its beginning to the 20th Century.
Prerequisite, 1-4.
Three hours, both semesters.

*103 and 104 omitted 1920-21.

GREEK

James W. Kyle

Courses 5, 6, 7, 8, 101, 102, 105 and 106 may be counted for a major in Greek.

1 AND 2. ELEMENTARY GREEK: BALL'S ELEMENTS OF GREEK

Gospel of Luke for sight reading.
Book I. of Xenophon's Anabasis.
Four hours, both semesters.

3 AND 4. XENOPHON: ANABASIS

Books I.-IV. Composition continued. Homer: Iliad, Book I. Metrical reading.
Four hours, both semesters.

5. LYSIAS: SELECTED ORATIONS

Exercises in recomposition of the text. Analysis of style of Lysias. Lectures on the Greek orators.
Three hours, first semester.

6. HOMER: ILIAD, SELECTIONS

Study of forms from text and from Sterrett's Dialect of Homer. Metrical reading of the Greek. Lectures on the Homeric Poems as literature.
Three hours, second semester.

7. LUCIAN: SELECTED DIALOGUES

Exercises in recomposition. Required reading of other dialogues in translation. Lectures on the Greek rhetoricians.
Three hours, first semester.

8. PLATO: APOLOGY, CRITO AND PART OF THE PHAEDO

Discussion of the life and teachings of Socrates. Reading and reviews of the Gorgias, Symposium and Republic in Jowett's translation.
Three hours, second semester.

101. EURIPIDES: IPHIGENIA IN TAURIS; ARISTOPHANES; CLOUDS

Discussion of the plot and characters. Lectures on the Greek theater. Study of the various metres and exercises in metrical reading.
Three hours, first semester.

102. DEMOSTHENES: ORATION ON THE CROWN

Analysis of the style of Demosthenes. Supplemented by reading from Dionysius and select passages from Hyperides, Isaeus, Aeschines and Isocrates.
Three hours, second semester.

103 AND 104. GREEK LITERATURE IN ENGLISH

Lectures on style, with class work in Fowler's History of Ancient Greek Literature. Required reading of three Greek authors per semester in the best translations, with critical review of each. The power to criticise independently and appreciate reasonably a work of literary art is sought in this course as well as some direct and personal acquaintance with the literature of Greece.
Three hours, both semesters.

105 AND 106. MODERN GREEK

A Practical Method by Rangabe will be used as a guide. Part of each hour will be given to conversation in Modern Greek. A magazine published at Athens will be taken by each member of the class. Short stories by present-day writers will be read.
Three hours, both semesters.

HISTORY

A. Harvey Collins

All UPPER DIVISION courses will be accepted as major courses.

Note—The six hours of history required for graduation from any department must be History 3 and 4, or 4 and 105.

1 AND 2. ENGLISH HISTORY

This course is planned so as to cover the principal features of English History to the present time. Special attention will be paid to the constitutional phases.
Three hours, both semesters.

3 AND 4. MEDIAEVAL AND MODERN EUROPE

A survey of the leading events in European History from about 476 to 1815 A. D., with special reference to the development of the great institutions both of Church and State. Text, lectures, collateral readings, preparation of maps and papers.
Sophomore course.
Three hours, both semesters.

5 AND 6. CURRENT HISTORY

A discussion of the important topics of the day, using such periodicals as the Independent, Digest, Outlook, et al.
One hour, both semesters.

9. AMERICAN COLONIAL HISTORY

A study of the Colonial History of the Americas. Lectures on the discovery, exploration and the founding and development of the European colonies in the Americas.
Lectures, text, papers, maps.
Two hours, first semester.

101. HISTORY OF GREECE

A study of the civilization of the Greeks, the development of their politics, art and philosophy and their influence on the world.
Three hours, first semester. Mr. Kyle.

102. HISTORY OF ROME

The story of the city that conquered and ruled the world, the spirit that absorbed and unified and trained the world, and the men and the institutions which it produced.
A continuation of Course 101.
Three hours, second semester. Mr. Kyle.

105. NINETEENTH CENTURY EUROPE

Beginning with the general peace secured by the Congress of Vienna this course deals with the new political, social and international problems that characterize the nineteenth, and two decades of the twentieth century.
Prerequisite, History 4 or 1 and 2.
Three hours, first semester.

106. INTERNATIONAL RELATIONS

This course is designed to familiarize the student with the more important diplomatic questions that have presented themselves to our own statesmen. Special attention will be given to the American Diplomacy of the Twentieth Century.
Three hours, second semester.

107 AND 108. HISTORY OF THE UNITED STATES

Designed to show the growth of the American National Government by a study of the political, social and institutional development of the United States 1783-1921. Special emphasis will be laid on the causes of the Civil War, Reconstruction, and the institutional and political development since 1875. Lectures, reports, investigations and comparisons.
Three hours, both semesters.

110. AMERICAN EXPANSION

Expansion of the American people along territoral, social and industrial lines. Lectures with much collateral reading and preparation of papers and maps.
Two hours, second semester.

111 AD 112. HISTORY OF THE PACIFIC SLOPE

A special lecture course from syllabus together with investigations and reports.
One or two hours, both semesters.

113. THE REFORMATION

A detail study of the Protestant Reformation. An attempt will be made to discover the causes leading to the movement and the immediate and ultimate results, as well as to trace the current of events.

Prerequisite, History 1 or 3.

Three hours, first semester.

114. HISTORY OF LATIN AMERICA

The course is designed to give a knowledge of the importance of the Caribbean region and make a study of the institutional and industrial development of all Latin America. Special attention will be given to the inter-relationship of the Americas.

Three hours, second semester.

115. HISTORY SEMINAR

A Seminar Study of some selected topic or movement.

One hour, either first or second semester.

HISTORY OF MUSIC

(See under Music.)

HISTORY OF ART

(See under Art.)

HYGIENE

A study of hygiene in its personal and social aspects—stressing the underlying principles which promote and conserve the life forces, and discussing the meaning and importance of "the art of right living" in relation to the individual and life in general. This is supplemented with any necessary explanation of the structure and functions of the human body which may serve to strengthen the plea for right living.

Lectures, readings and recitations.

Required of all Freshmen.

One hour, both semesters.

LATIN

James W. Kyle

Courses 5 to 8 and 101 to 106, inclusive, may be counted for a major in Latin.

1 AND 2. CICERO: ORATIONS AND LETTERS

Composition based on the text. Much reading in Latin to acquire expression. Memorizing of select passages.
Three hours, both semesters.

3 AND 4. VERGIL: AENEID, BOOKS I.-VI.

Metrical reading of the whole text. Discussion of syntax and figures of Vergil. Reading and reports from Sellar's "Vergil." Memorizing of select passages.
Three hours, both semesters.
The above courses are intended for students who entered with only two years of Latin.

5. CICERO: DE SENECTUTE AND DE AMICITIA

Review of forms and syntax. Discussion of the life and thought of Cicero and the sources of his philosophy.
Three hours, first semester.

6. HORACE: SELECTIONS FROM ODES, SATIRES AND EPISTLES

Will be read metrically to secure ease and fluency in the Latin. Parallel passages from Greek and English poets. Discussion of the spirit and art of Horace.
Three hours, second semester.

7. LIVY: SELECTIONS FROM BOOKS I.-X.

Lectures on the history of Rome. Discussion of the style and rhetorical methods of Livy.
Three hours, first semester.

8. TACITUS: HISTORIES, BOOKS I. AND II.

Systematic study of the style of Tacitus. Comparison with Livy and Thucydides. Lectures on the life and times of Tacitus.
Three hours, second semester.

9 AND 10. LATIN COMPOSITION

Illustrating the syntax and diction of several Latin authors. Designed especially for those who are preparing to teach Latin.
Two hours, both semesters.

101. PLAUTUS: CAPTIVI, TRINUMMUS AND RUDENS

Metrical reading. Lectures on Latin Comedy and the Greek Theatre.
Three hours, first semester.

102. LUCRETIUS; CATULLUS; TIBULLUS; SELECTIONS

Metrical reading, lectures and critical essays on the Latin poets.
Three hours, second semester.

103. SENECA: SELECTIONS FROM ESSAYS ANL LETTERS

Discussion of philosophy and ethics at Rome in the early Empire. The style of Seneca compared with Cicero and with Tacitus.
Three hours, first semester.

104. QUINTILIAN: INSTITUTIONS, BOOKS X. AND XII.

Discussion of literary criticism among the Romans, and a rapid survey of the field of Latin literature.
Three hours, second semester.

*105. CICERO—THE TUSCULAN DISPUTATIONS

With selections from Lucretius. A study of the various schools of Greek philosophy and their influence on the thought and feeling of Rome in the latter days of the Republic.
Three hours, first semester.

*106. PETRONIUS AND MARTIAL

Selections from the Cena Trimalchionis and from the Epigrams of Martial.
Discussion of the social life and customs of the Romans, with special assignments and reports.
Three hours, second semester.

*105 and 106 omitted 1920-21.

MATHEMATICS

Emma Kirtland Whiton

Courses 1, 2, 3 may not be counted toward a major in Mathematics and not more than one of the courses 5 and 6 may be so counted.

1. ALGEBRA

This course is substantially equivalent to intermediate Algebra, frequently offered for matriculation. It should be taken by all Freshmen who do not offer this course for entrance.
Three hours, first semester.

2. TRIGONOMETRY

Analytic Trigonometry, the proof and applications of the fundamental relations among the functions of angles. Practical Trigonometry, the solution of the plane triangle, measurements of heights and distances.
Prerequisite, Mathematics 1.
Three hours, second semester.

3. SOLID GEOMETRY

The fundamental propositions of Solid and Spherical Geometry with many original exercises applied especially to the mensuration of solids.
Three hours, first semester.

5. ELEMENTS OF ANALYTIC GEOMETRY

A study of the point, the line and the circle, with some of the more important and elementary theorems on the conic sections.
Prerequisite, Mathematics 1 and 2.
Three hours, first semester.

6. COLLEGE ALGEBRA

Rapid review of the Theory of Quadratic Equations, Permutations and Combinations, Series, Logarithms, Determinants and elementary Theory of Equations.
Prerequisite, Mathematics 1 and 2.
Three hours, second semester.

101 AND 102. DIFFERENTIAL AND INTEGRAL CALCULUS

Fundamental formulae and processes of differentiation with an insight into the powerful factor which this subject is in modern scientific research, and a study of the processes of integration and their application to physical and mechanical problems.
Prerequisite, Mathematics 1, 2, 5.
Three hours, both semesters.

103. THEORY OF EQUATIONS

Equations of higher degrees, symmetric functions of roots, determinants of higher orders.
Prerequisite, Mathematics 1, 2, 5, 6, 101.
Three hours, first semester.

*104. ELEMENTARY PROJECTIVE GEOMETRY

Fundamental concepts; anharmonic ratio; projective pencils and ranges. Designed especially for those who purpose to teach mathematics.

Prerequisite, Mathematics 1, 2, and 5.

Three hours, second semester.

*105 AND 106. ADVANCED ANALYTICAL GEOMETRY

A more detailed study of the properties of the conic section; some insight into the study of higher plane curves, including introduction to modern methods in analytic geometry.

Prerequisite, Mathematics 1, 2, 5, 6, 101, 102.

Three hours, both semesters.

108. ANALYTIC GEOMETRY OF THREE DIMENSIONS

Analytic study of the plane and straight line in space, surfaces of the second degree, introduction to theory of surfaces in general.

Prerequisite, Mathematics 1, 6, 101.

Three hours, second semester.

109 AND 110. ADVANCED CALCULUS AND DIFFERENTIAL EQUATIONS

A study of many of the important applications of the calculus with the solution of differential equations and their application in the solution of physical problems.

Prerequisite, Mathematics 1-6, 101, 102.

Three hours, both semesters.

*Omitted 1920-21.

PHILOSOPHY AND EDUCATION

Herbert E. Wise

All courses excepting 1 and 2 in this department will be accepted as majors.

1. LOGIC

Historic stages in the development of logic; principles of deduction and induction; detection of fallacies; training in discriminative and consecutive thinking.

Three hours, first semester.

2. INTRODUCTION TO PHILOSOPHY

This course affords a survey of the field of philosophic enquiry, both in its historical and interpretive aspects.
Three hours, second semester.

101. PSYCHOLOGY

An introduction to General Psychology. The elements and functions of conscious life, and the affective, discursive and volitional processes are studied in their relation to practical life.

Biology III is most desirable as preparation for this course.

Three hours, first semester.

102. APPLIED PSYCHOLOGY

Psychic element in literature; suggestion and mental healing; forensic, social and religious psychology. Special attention given to psychology of thinking.
Prerequisite, 101.
Text, lectures and reports.

Three hours, second semester.

103. HISTORY OF PHILOSOPHY

The course traces the development of philosophy from the Greek interpretation of the universe to the scientific explanation of the modern period. Careful attention is given to Plato and Aristotle; to the period of Scholasticism; to the rise and development

of the Kantian system, and to Kant's influence upon subsequent thought.
Prerequisite, 1 and 2.
Five hours, first semester.

104. HISTORY OF PHILOSOPHY (Continued)

Post-Kantian Idealism in Europe and America. Hegelianism and its tendencies. Special attention given to Pragmatism and to the views of Bergson. and Eucken.
Three hours, second semester.

105. ETHICS

This course treats of problems and relations, moral standards, theories of moral values, and includes an historical survey of the classical schools. Thesis required.
Three hours, first semester.

106. THEISM

Divine and human personality; arguments for the Divine existence; principal Anti-Theistic theories; ethical and religious teaching of Christianity; relation of Christianity to other religions.
Three hours, second semester.

*108. ELEMENTS OF METAPHYSICS

This course surveys both special and general problems of Philosophy. It includes problems and theories of knowledge, truth and reality, conception of an objective order, and aims at a constructive philosophy of life.
Prerequisites, 103, 104.
Three hours, second semester.

116. (a) PHILOSOPHY OF EDUCATION

This course emphasizes the distinguishing aspects of the educative process, comprising the biological,

psychological, sociological, and religious. Text is supplemented by special investigations.
Prerequisite, Philosophy 101.
Three hours, second semester.

* (b) HISTORY OF EDUCATION

The functional aspects of the history of education are traced through Ancient, Mediaeval and Modern periods, as shown in individual and social aims. Text, lectures and reports.
Prerequisite, Philosophy 101.
Three hours, second semester.

*118. PRINCIPLES OF SECONDARY EDUCATION

Physical and Mental traits of the pupil.
Relation to both Elementary and Higher Education.
Program of studies. Organization.
Prerequisite, Philosophy 101.
Three hours, second semester.

* Omitted in 1920-21.

PHYSICAL EDUCATION

The aim is to promote the physical welfare of the individual through stimulating the functioning of the organs of the body and correcting all possible defects—especially those relating to posture; to develop the mental faculties such as attention, judgment, discrimination, self-control, etc.; and to assist in building character by the creation of high ideals.

1 AND 2. ELEMENTARY COURSE FOR FRESHMEN

a. Practical floor work.
Two hours, both semesters.
b. Outdoor sports elected by students but subject to the approval of the Physical Director.
Two hours, both semesters.

*Required of all Freshmen.

Four hours, both semesters.
One hour credit each semester.

3 AND 4. ADVANCED COURSE FOR SOPHOMORES

a. Practical floor work.
Two hours, both semesters.
b. Outdoor sports elected by student but subject to the approval of the Physical Director.
Two hours, both semesters.

*Required of all Sophomores.

Four hours, both semesters.
One hour credit each semester.

5 AND 6. CORRECTIVE GYMNASTICS

All Freshmen and Sophomores who are unable to take the regular gymnasium work on account of physical defects are required to substitute a course in special corrective exercises adapted to the individual.

Physical examinations and measurements are taken at the beginning and end of the Freshmen and Sophomore years to determine the degree of physical efficiency. Accurate records are kept. Follow up work is pursued with the view to assisting individuals in acquiring and maintaining physical fitness.

The University of Redlands recognizes the value of athletics in the college curriculum. Athletics is the vitalizing force of "College Spirit," and hence of value to college students in general. Athletics, when properly coached and controlled, is of great value to the participant for not only is the body developed, the eye made keener and the judgment quickened, but, if allowed so to do, the broader and finer qualities of mind and of soul, even, find expression and receive impulses and strength. Therefore athletics occupies the usual important place in the schedule.

These sports include football, basketball, baseball, and track.

Dress requirements for women students in Physical Education:

All women students are required to have black bloomers, white middy blouses and black gymnasium shoes.

*Men engaging in athletics are, upon recommendation of the Coach excused from these courses during their period of participation in athletics.

PHYSICS

Herbert E. Marsh

1 AND 2. MECHANICS, MOLECULAR PHYSICS, HEAT, SOUND, LIGHT, MAGNETISM AND ELECTRICITY

This course is designed for those who have not had a requisite amount of work in this subject to undertake the more advanced courses 101 and 102, and also to meet the requirements of courses involving the essentials of this branch of science. May be pursued without previous work in Physics.

Prerequisite Math. 1.

Recitations and lectures three hours and two laboratory periods, both semesters.

101 AND 102. MECHANICS, MOLECULAR PHYSICS, HEAT, SOUND, LIGHT, MAGNETISM AND ELECTRICITY

Although the grasping of principles and not skill in manipulation is strongly emphasized, still the fixing power of laboratory application is recognized. The purpose is to give the student an insight into the real significance of physical things, by putting him in touch with the methods and instruments of

modern physical investigation and by carrying him through the process of reasoning by which the present science of physics has been developed.
Prerequisite, one year of entrance Physics and Mathematics 2 and 6.
Recitation and lectures two hours and two laboratory periods, both semesters.

103. ELECTRICAL MEASUREMENTS

Various methods for exact determination of voltage, resistance, and current; also study and calibration of various types of galvanometers, voltmeters, ammeters, condensers, etc.
One recitation and three laboratory periods, first semester.

POLITICAL SCIENCE

H. C. Tilton

2. UNITED STATES GOVERNMENT AND POLITICS

The organization of state and national governments, their actual working and the history and function of political parties.
Three hours, second semester.

*3. GOVERNMENT

A discussion of the essential constituent elements of the state; of the functions and sphere of the state; of citizenship and nationality; of constitutions, their nature, sources and kinds; of the more important theories concerning the origin, nature, functions and organization of the state.
Three hours, first semester.

104. EUROPEAN GOVERNMENTS

A comparative study of the political institutions of the leading states of Europe.
Sophomore-Junior-Senior course.
Three hours, second semester.

*105. INTERNATIONAL LAW

A study of the general principles governing nations in their intercourse with each other, such as rules of peace and war, diplomatic usage and methods of arbitration. Leading cases, reports on special topics.
Three hours, first semester.

106. HISTORY OF POLITICAL THOUGHT

A study of political ideals from ancient and modern times, emphasizing the evolution of democracy.
Three hours, second semester.

107. MUNICIPAL GOVERNMENT

Mainly a study of the modern American city will be made; but comparisons will be made with the government and experiences of European cities.
Three hours, first semester.

*Omitted 1920-21.

SOCIOLOGY

H. C. Tilton

21. INTRODUCTION TO SOCIOLOGY

A study of the origin and development of the family and the evolution of certain social institutions. Modern social problems such as divorce, immigration, pauperism, socialism, etc., will receive attention.
Three hours, first semester.

*122. PRINCIPALS OF SOCIOLOGY

An analysis of social life and the forces producing

social organization; application of principles to concrete problems. Text, lectures and reports.
Prerequisite, Psychology.
Three hours, second semester.

123. DEPENDENTS

The classes, origin and treatment of dependents.
Two hours, first semester.

*Omitted 1920-21.

SPANISH

Edith A. Hill

All courses except Spanish 1, 2 and 11 may be taken as major courses.

1 AND 2. FIRST YEAR SPANISH

Ready familiarity with the essentials of Spanish grammar, and systematic training in pronunciation, conversation and reading.
Four hours, both semesters.

3 AND 4. SECOND YEAR SPANISH

Selected texts from modern Spanish authors.
Three hours, both semesters.

5 AND 6. CONVERSATION AND COMPOSITION COURSE

A course in conversation and composition based on current events, history, and composition. Reports in Spanish by members of the class.
Prerequisite, 1 and 2.
Two hours, both semesters.

11. SPANISH

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, etc.
Prerequisite, 1.
Three hours of laboratory. One hour credit, one semester.

Schedule of Recitations

FIRST SEMESTER

7:45 O'CLOCK

Economics 31	M	T			F
Engineering 101	M			Th	F
English 1, section 1 (T)	M	T	W		
English 103			W	Th	F
English 163		T			
Greek 3	M	T	W	Th	
History 105		T		Th	F
Hygiene 1, Women Section 1		T			
Hygiene, Women Section 2				Th	
Hygiene 1, Men Section 3		T			
Hygiene 1, Men Section 4				Th	
Mathematics 1, Section 1			W	Th	F
Mathematics 3,	M	T			
Philosophy 105		T	W	Th	
Physics 101		T	W		
Physics 103			W		
Spanish 1	M	T			
Spanish 3			W	Th	F

8:45 O'CLOCK

Biology 105	M		W	Th	
Chemistry 1	M	T			
Chemistry 5			W		
Chemistry 101				Th	F
English 109			W		
English 151	M	T	W		
English 163				Th	F
French 1, Section 2	M	T		Th	F
German 1	M	T		Th	F
Greek 1	M		W		
Harmony 1				Th	F
History 1		T		Th	F
History of Art 1		T			F
Latin 1		T		Th	F
Mathematics 3			W		
Philosophy 1	M			Th	F
Physics 101	M	T	W	Th	
Physics 103			W		
Sociology 123	M	T	W		
Spanish 1				Th	F

9:45 O'CLOCK

Biology 3		T			
Biology 105				Th	
Biology 109	M		W		F
Chemistry 1	M	T		Th	F
Chemistry 5			W		
English 1, Section 2 (N)		T		Th	F
English 109		T		Th	
English 193	M		W		
French 3	M		W		F
French 5		T		Th	
German 3	M		W		F
Greek 1				Th	F
Harmony 3	M		W		
History 111		T			
Latin 3	M	T	W		
Mathematics 103	M	T	W		
Philosophy 101	M		W		F
Physics 1	M	T	W	Th	F
Physics 103	M	T			
Sociology 21		T		Th	F

10:45 O'CLOCK

Biology 3		T	W	Th	F
Chemistry 3				Th	F
Chemistry 5			W		
English 1, Section 3 (N)			W	Th	F
English 141	M	T	W		
History 107	M	T	W		
Latin 5	M		W		F
Mathematics 1, Section 2			W	Th	F
Mathematics 5	M	T	W		
Philosophy 103	M	T	W	Th	F
Physics 1	M	T			
Physics 103	M	T		Th	
Political Science 107	M	T	W		
Spanish 5				Th	F

1:00 O'CLOCK

Biology 1		T	W	Th	F
Chemistry 3	M	T			
Chemistry 5				Th	F
Chemistry 101				Th	F
Engineering 1				Th	F
Engineering 3				Th	F
Engineering 5	M	T	W		
Engineering 7				Th	F
English 181			W	Th	F
English 191	M	T			
French 103	M	T		Th	
Geology 1	M				
Greek 5	M		W		F
History 3		T	W	Th	
History 101		T		Th	
History of Art 3		T			F
History of Music 1	M			Th	
Mathematics 101			W	Th	F

2:00 O'CLOCK

Astronomy 1			W	Th	F
Bible 101			W	Th	
Biology 1			W		
Chemistry 3	M	T			
Chemistry 5				Th	F
Chemistry 101				Th	F
Economics 131	M	T		Th	
Engineering 1				Th	F
Engineering 3				Th	F
Engineering 5	M	T			
Engineering 7			W	Th	F
English 51		T		Th	F
English 109	M	T	W		
French 1, Section 1	M	T		Th	F
Geology 1	M	T		Th	
Greek 103	M		W	Th	
History 101					F
History 113		T	W	Th	

3:00 O'CLOCK

Chemistry 3	M	T			
Chemistry 5				Th	F
Chemistry 101				Th	F
Engineering 7			W	Th	F
History 9		T		Th	
History 5			W		
Latin 7	M		W		F

SECOND SEMESTER

7:45 O'CLOCK

Economics 32	M	T			F
Engineering 102	M			Th	F
English 2, Section 1 (T)	M	T	W		
English 104			W	Th	F
English 112		T			
Greek 4	M	T	W	Th	
History 106		T		Th	F
Hygiene 2, Women Section 1		T			
Hygiene 2, Women Section 2				Th	
Hygiene 2, Men Section 3		T			
Hygiene 2, Men Section 4				Th	
Mathematics 2, Section 1			W	Th	F
Philosophy 106		T	W	Th	
Physics 102		T	W		
Spanish 2	M	T			
Spanish 4			W	Th	F

8:45 O'CLOCK

Biology 106	M		W	Th	
Chemistry 2	M	T			
Chemistry 6			W		
Chemistry 102				Th	F
English 110			W		
English 112				Th	F
English 152	M	T	W		
French 2, Section 2	M	T		Th	F
German 2	M	T		Th	F
Greek 2	M		W		
Harmony 2	M			Th	
History 2		T		Th	F
History of Art 2		T			F
Latin 2		T		Th	F
Mathematics 110			W	Th	F
Philosophy 2	M			Th	F
Physics 102	M	T	W	Th	
Political Science 106	M	T	W		
Spanish 2				Th	F

9:45 O'CLOCK

Biology 4		T			
Biology 106				Th	
Biology 110	M		W		F
Chemistry 2	M	T		Th	F
Chemistry 6			W		
English 2, Section 2 (N)		T		Th	F
English 110		T		Th	
English 194	M		W		
French 4	M		W		F
French 6		T		Th	F
German 4	M		W		F
Greek 2				Th	F
Harmony 4	M		W		
History 112		T			
Latin 4	M	T	W		
Mathematics 108	M	T	W		
Philosophy 102	M		W		F
Physics 2	M	T	W	Th	F
Political Science 2		T		Th	F

10:45 O'CLOCK

Biology 4		T	W	Th	F
Chemistry 4				Th	F
Chemistry 6			W		
English 2, Section 3 (N)			W	Th	F
English 58	M	T	W		
History 108	M	T	W		
Latin 6	M		W		F
Mathematics 2, Section 2			W	Th	F
Mathematics 6	M	T	W		
Philosophy 104	M	T	W		
Physics 2	M	T			
Political Science 104	M	T	W		
Spanish 6				Th	F

1:00 O'CLOCK

Biology 2		T	W	Th	F
Chemistry 4	M	T			
Chemistry 6				Th	F
Chemistry 102				Th	F
Engineering 2				Th	F
Engineering 4				Th	F
Engineering 6	M	T	W		
Engineering 8				Th	F
English 182			W	Th	F
English 192	M	T			
French 104	M	T		Th	
Greek 6	M		W		F
History 4		T	W	Th	
History 102		T		Th	
History of Art 4		T			F
History of Music 2	M			Th	
Mathematics 102			W	Th	F

2:00 O'CLOCK

Astronomy 2			W	Th	F
Bible 102			W	Th	
Biology 2			W		
Chemistry 4	M	T			
Chemistry 6				Th	F
Chemistry 102				Th	F
Economics 134	M	T		Th	
Engineering 2				Th	F
Engineering 4				Th	F
Engineering 6	M	T			
Engineering 8			W	Th	F
English 52		T		Th	F
English 110	M	T	W		
French 2, Section 1	M	T		Th	F
Greek 104	M		W	Th	
History 102					F
History 114		T	W	Th	
Philosophy 116	M	T			F

3:00 O'CLOCK

Chemistry 4	M	T			
Chemistry 6				Th	F
Chemistry 102				Th	F
Engineering 8			W	Th	F
History 6			W		
Latin 8	M		W		F

College of Fine Arts

DEPARTMENT OF MUSIC AND ART
GENERAL INFORMATION

In accordance with the plan followed in connection with the other departments of the University, provisions have been made for the most thoro and advanced work in the Departments of Music and Art.

The line of work in the University course in Music, conferring the degree of Bachelor of Music, corresponds with that of some of the European Universities.

Preparatory, or Elementary work has also been provided to accommodate those who have not the proper number of entrance requirements for registration in the College work in Music. Saturday classes for children and young people in both Piano and Art provide a valuable opportunity for the cultivation of talent in the early years under the guidance of competent instructors.

Realizing the extent to which superior musical efficiency is attainable only in conjunction with the highest cultural development, stress is laid upon this phase of the students' growth; and special attention is directed to such courses in the other departments of the University as will prove of value in this respect to Music and Art students.

A Choral Society under the direction of the Head of the Department of Voice gives opportunity for expression and development of musical ability to the students of the entire University.

The Men's College Glee Club and the Women's College Glee Club are open to a limited number of engagements. For particulars and terms, address College of Fine Arts, University of Redlands, Redlands, California.

Classes in the Department of Music will be organized at the beginning of the college year, as indicated in the Calendar.

Special lessons may be begun at any time.

Piano practice may be arranged for at the Fine Arts Building.

DEPARTMENTS, DEGREES AND REQUIREMENTS

DEPARTMENTS

The College of Fine Arts is made up of the following Departments:

(1) Music. (2) Drawing and Painting.

DEGREES AND CERTIFICATES

A Diploma conferring the degree of Bachelor of Music will be awarded to those who complete the required courses in the Department of Music.

A Special Diploma conferring the degree of Bachelor of Music will be awarded to those who complete the required courses with high standing in all subjects as well as in public performance.

REQUIREMENTS FOR ADMISSION

There are two methods of admission to the College of Fine Arts, (1) by Examination, (2) by Certificate.

By Certificate:—Students will be admitted without examination on certificates from accredited High Schools or other preparatory schools, provided that the course completed in High School shall include at least twelve units in subjects usually designated as solids.

By Examination:—All students who cannot present certificates from accredited schools will be examined in the subjects required for entrance.

Students who do not present Physics for entrance will be required to pursue that subject through at least the discussion of Sound.

In Piano and Organ—Applicants are required, in addition to the above, to pass an examination embracing the following or their equivalent:

1. An exercise. 2. Selections from Bach. 3. Sonata—Classical School.

In Voice and Violin:—Applicants for the regular course in Voice, or Violin, must be able to play Piano accompaniments of moderate difficulty. Any deficiencies in this respect must be made up before graduation.

SPECIAL STUDENTS IN MUSIC

Students need not be deterred from seeking to enter the College of Fine Arts of the University because they can not satisfy all the requirements for full admission to that school. Those requirements are for persons who are candidates for a degree in music. All persons who desire to pursue a special line of work, without conforming to the requirements for entrance, or following a prescribed course, may apply for admission to the College of Fine Arts as special students. The admission of such person is under the control of the Department in which he wishes to register.

REQUIREMENTS FOR GRADUATION

No student will be permitted to graduate from the

Department of Music, College of Fine Arts, who has not credit for the 126 hours as designated below, and who has not taken at least one year of regular work at the University.

Students taking instrument work in music are required to practice two hours per day for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives three hours of college credit toward the 126 hours required for graduation.

Students taking Voice are required to practice from one hour to two hours per day, according to the grade of the work, for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives the student two hours of college credit toward the 126 required for graduation.

The required work leading to the different degrees is as follows:

BACHELOR OF MUSIC IN VOICE

Voice	32 hours
Piano	24 hours
History of Music	4 hours
Theory	16 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Physical Education	4 hours
Sight Singing and Ear Training	4 hours
Hygiene	2 hours
Electives	4 hours
Total	126 hours

Bachelor of Music in Piano

Piano	48 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	4 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Hygiene	2 hours
Physical Education	4 hours
One additional Instrument or Voice	8 hours
Electives	4 hours
Total	126 hours

Bachelor of Music in Violin

Violin	48 hours
Piano	12 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	4 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Hygiene	2 hours
Physical Education	4 hours
Total	126 hours

Bachelor of Music in Organ

Organ	24 hours
Piano	24 hours
History of Music	4 hours
Theory	16 hours
Sight Singing and Ear Training	4 hours
English	6 hours
Modern Languages	18 hours
General History	6 hours
Sociology	3 hours
Psychology	3 hours
Hygiene	2 hours
Physical Education	4 hours
Electives	12 hours
Total	126 hours

Note—For description of required Liberal Arts courses see Departments of Instruction, College of Liberal Arts.

CONCERTS AND RECITALS

Concerts are frequently given in Recital Hall, by the Faculty and advanced students.

Concert courses which are arranged for at special rates by the Spinet Club of Redlands, afford Students an opportunity to hear many noted musicians.

Recitals are given semi-monthly by the students of the College of Fine Arts at which works studied in the class room are performed before audiences of fellow students and their friends. All Fine Arts students are required to attend these concerts and recitals, and to take part in programs at least twice a year and to present, each semester, a record of attendance. These semi-public appearances are of great assistance in enabling the student to acquire the ease and self-possession so essential to a successful public appearance.

At the close of the College year, during Commencement Week, the Anniversary Recital of the College of Fine Arts, Department of Music is held at which the students doing the best work in performance at the above-mentioned recitals are heard.

ART

Students for the Art Department will be admitted at any time, but not for less than one semester except by special arrangement with the Instructor.

Instruction in all Art Classes is individual. Advancement of each student depends upon the degree of proficiency attained.

ADDITIONAL REQUIREMENTS

ARTISTS' COURSE—COLLEGIATE COURSE

These courses are identical in outline, but students in the Artists' courses are expected to do a larger amount of work, to maintain the highest grade in all musical subjects, and give a graduating recital. This is not required in the collegiate course, which is intended for those who wish to fit themselves for teachers or take music for personal culture rather than to become public performers. After the second year students are graded in the two courses according to their standing.

Students who are backward in technical development at the end of the Sophomore year must make up the deficiency by special work in Piano before they receive Junior standing.

FEES

Matriculation fee, payable once, at time of first registration	$5.00
Registration fee, per semester	2.00

TUITION FEES, PER SEMESTER, SIXTEEN WEEKS.

For students who are doing regular work in either the Fine Arts or the Liberal Arts College:

Voice, one period per week	$45.00
Voice, two periods per week	90.00
Piano, one period per week, with Head of Dept.	45.00
Piano, two periods per week	90.00
Piano, one period per week, with Assistant	30.00
Piano, two periods per week	60.00
Piano, one period per week, with Instructor	20.00
Piano, two periods per week	40.00
Piano, Saturday class for young people	12 00
Organ, one period per week	30.00
Organ, two periods per week	60.00
Violin, one period per week	45.00

For students who are not doing regular work:

Voice, one period per week	$48.00
Voice, two periods per week	96.00
Piano, one period per week, with Head of Dept.	48.00
Piano, two periods per week	96.00
Piano, one period per week, with Assistant	32.00
Piano, two periods per week	64.00
Piano, one period per week, with Instructor	22.00
Piano, two periods per week	44.00
Organ, one period per week	32.00
Organ, two periods per week	64.00
Violin, one period per week	48.00
Drawing and Painting, five hours per week	$50.00
Drawing and Painting, two hours per week	20.00

The following charges for practice piano for the semester will be made:

Two hours or less per day	$5.00
Three hours per day	6.50
Four hours per day	7.50

The tuition fees for other courses in the Fine Arts College are the same as those in the Liberal Arts College. For a statement of these fees, see "Expenses," Liberal Arts College.

Departments of Instruction

ART

Kate Watkins, Head of Art Department

Complete course in the following:
Drawing.
Modelling in clay.
Painting in oil and water color.
Working from the cast, still life, and model.
Composition and design.
Out-door sketching.

The following course is designed for those who wish to prepare themselves for teachers of Art. A certificate of proficiency will be awarded for the satisfactory completion of this course which is open to graduates of recognized High Schools:

Studio work	18 hours
Art History	8 hours
English	6 hours
Psychology	3 hours
Ethics	3 hours
Modern Languages	14 hours
Biblical Studies	2 hours
Electives	11 hours
Total	65 hours

STUDIO WORK

House planning and interior decoration.
Two hours, both semesters, with one hour of college credit.
Charcoal drawing from cast and still life.
Pen and ink, and pencil drawing.
Modelling in clay.
Painting in oil and water color, from still life and model.
Outdoor sketching.
Composition and design.
Wood block designing.
Interior decoration.
Painting from life.
Artistic anatomy—Perspective.

HISTORY OF ART

1. Ancient and Mediaeval Architecture and Sculpture. Two hours, first semester.
2. Renaissance and Modern Architecture and Sculpture. Continuation of Course I. Two hours, second semester.
3. Painting, Early Painting and Renaissance Painting. Two hours, first semester.
4. Painting, Modern. Continuation of Course 3. Two hours, second semester. Lecture courses, supplemented by collateral reading and picture study.

PIANO

Charles Howard Marsh
Annette Cartlidge
Flora Cordelia Cook

1. Piano

Technical training according to the principles of

modern piano technique. Systematic training in art-principles of technique, phrasing and tone-quality. Elementary study of the characteristics of the various classic composers. Repertoire of selections from standard works by the best composers.
Two hours, first semester.

2. Piano

Technical training.
Continuation of classical study (at least two Sonatas).
Repertoire of selections from the works of the best composers, classic and romantic.
Two hours, second semester.

3. Piano

Technical training. Study of the characteristics of the various classic composers. Repertoire.
Two hours, first semester.

4. Piano

Technical training—Continuation of classical study (at least two Sonatas). Repertoire.
Two hours, second semester.

101. Piano

Technical training. Romantic School. Beethoven Sonatas. Repertoire.
Exercises for the independence of the fingers. Bach, Chopin.
Two hours, first semester.

102. Piano

Technical training—Bach (continued). Beethoven. (continued). Chopin (continued).
Modern works.
Two hours, second semester.

103. Piano

Technical training.
Studies selected from the works of the greatest masters of pianistic literature. At least one concerto. Modern compositions.
Two hours, first semester.

104. Piano

Technical training. Interpretations in Modern School of Composition. Pedagogics (for prospective teachers.
Two hours, second semester.

HISTORY OF MUSIC

Flora C. Cook

101 and 102. History of Music

Ancient Music. Mediaeval Music. Music of the Sixteenth Century, of the Seventeenth Century, of the Eighteenth Century and the Classical School, and of the Nineteenth Century and the Romantic School. Later Modern Schools. Lectures supplemented by collateral reading.
Required for Degree of Mus. Bac.
Two hours, both semesters.

PUBLIC SCHOOL MUSIC

Annette Cartlidge

The University offers unusual advantages to students wishing the best preparation for efficient teaching, especially to those who wish to prepare themselves to teach music in high schools in addition to French, English, or some other subject.

Teachers with experience in public schools and with some musical training, who desire to enter a special field, will find the course suited to their needs. Students may combine work in this department with the four years course in Liberal or Fine Arts.

1 AND 2. PUBLIC SCHOOL MUSIC

Fundamentals of music teaching in the kindergarten. Rhythmic expression. Singing games. Song interpretation. Individual singing. Work with monotones. Creative songs.
Fundamentals of music teaching in the primary grades, including first, second, and third grades.
The work of the kindergarten expanded and enlarged. Practice teaching.
Fundamentals of music teaching in the fourth, fifth, sixth, seventh, and eighth grades. High School course outlined. Preliminaries to sight singing, chorus, glee clubs, orchestra, music appreciation, presentation of harmony, analysis, musical form, materials, and practice teaching.
Two hours, both semesters.

3 AND 4. SIGHT SINGING AND EAR TRAINING

Two hours, each semester.

THEORETICAL SUBJECTS

HARMONY, COUNTERPOINT, FORM AND COMPOSITION

Charles Howard Marsh
Flora Cordelia Cook

1. HARMONY

The rudiments of music. Major and minor scales. Intervals Chords and their inversions.
Two hours, first semester.

2. HARMONY
Harmonization of figured basses and melodies using triads.
Two hours, second semester.

3. HARMONY
The dominant seventh and ninth chords and their inversions. Modulation. Secondary sevenths.
Prerequisite, 1 and 2.
Two hours, first semester.

4. HARMONY
Suspensions and embellishments.
Diminished seventh chords.
Chromatic harmony.
Two hours, second semester.

101. COUNTERPOINT
Prerequisite, 1 and 2.
Two hours, first semester.

102. CANON AND FUGUE
Prerequisite, 101.
Two hours, second semester.

103. HARMONIC ANALYSIS AND MUSICAL FORM
Survey of Modern Harmony; orchestration; form.
Prerequisite, 1-4.
Two hours, first semester.

104. MUSICAL APPRECIATION
Two hours, second semester.

VIOLIN

Joseph Zoellner, Sr.

The following courses are in the main only suggestive as the individual needs of the student must be paramount always. The Belgian style of playing will be advocated as the most efficient both for technic and tone production.

In addition to the following material Mr. Zoellner will use technical exercises originated by himself.

1. VIOLIN

Herman method, first part of Book I.
Violin Technique; Sevcik, Book I.
Training of ear; bowing and left hand.

2. VIOLIN

Herman method, second part of Book I.
Violin Technique; Sevcik.
Etudes: Kayser, Kreutzer, Mazas, Herman, etc.
Easy solos from the different composers.

3. VIOLIN

Herman method, third part of Book I.
Violin Technique; Sevcik Book II.
Scales and other studies.
Etudes: Fiorillo, Mazas, Leonard, Dont, etc.
Solos according to ability of student.

4. VIOLIN

Herman method, fourth part of Book I.
Violin Technique; Sevcik.
School Concerti and other selections; Ries, Viotti, Rode, etc.

101. VIOLIN

Herman method.
Violin Technique; Sevcik.
Etudes: Herman, Dont, Mazas, etc.
Concerti, Sonate and other solos from modern and old composers.

102. VIOLIN

Herman method.
Violin Technique; Sevcik.

Concerti, Sonate and other solos from Beethoven, David, Brahms, Bach, etc.

103. Violin

Herman method.
Violin Technique; Sevcik.
Etudes: Rode, Gavinie, Leonard, Campanolli, etc.
Concerti: Spohr, Vitalli, Lipinski, etc.
Sonate: Bach, Tartini, Corelli.

104. Violin

Herman method.
Violin Master Technique; Sevcik.
Etudes: Leonard, Petri, Dont, Vieuxtemps, Paganini.
Concerti for finish and interpretation; Max Bruch, Mendelssohn, Wieniawski, Beethoven, Paganini, etc.
Also concerti of the modern masters.

VOICE

Ezri Alfred Bertrand

1. Voice

Primary voice culture. Proper control of the breath, ear and mental training in regard to tone-quality.
Concone's Fifty Lessons for Medium Part of Voice.
Two hours, first semester.

2. Voice

The anatomy and physiology of the vocal organs and connecting parts.
The general principle of vocalization.
Active and passive agents.
Blending the registers.
"Vaccai" (English and Italian).
Two hours, second semester.

3. Voice

Concone.
Easy songs in English.
Songs by early Italian writers.
Ensemble singing.
Two hours, first semester.

4. Voice

Concone's Forty and Twenty-five Lessons for Med-Medium Part of Voice.
Sacred and secular songs in English.
Early Italian Classics.
Two hours, second semester.

101. Voice

Continuation of Voice 4. Masterpieces of vocalization—Spicker. Later Italian Classics; Mozart, Haydn, Rossini, Donizetti, Bellini, Verdi, etc.
Moderately difficult Oratorio and Opera Arias in English and Italian.
Two hours, first semester.

102. Voice

The trill and other embellishments. General training in agility. Modern Italian and French song literature.
Pedagogy.
Interpretation.
Two hours, second semester.

103. Voice

Continuation of Voice 102. Ensemble singing.
General old and new opera.
Modern songs by American composers.
Repertoire.
Pedagogy.
Two hours, first semester.

104. Voice

Dramatic singing or singing with action.
General International Repertoire (compositions sung in the original languages).
General training for teachers of voice.
Two hours, second semester.

Register of Students

GRADUATES OF 1919

BACHELOR OF ARTS

Eleanor Christiana Ahlstrom	Latin
Aileen Ruth Andrews	Biology
Ruth Mason Coggins	Mathematics
Ruth Frances Johnson	English
Margaret Hulbert Kling	Modern Languages
Donald Harlow Mitchell	Natural Sciences
Marjorie Alma Phillips	History
Leo Ellsworth Sievert	Political Science
Irene Beavers Smith	History

BACHELOR OF SCIENCE

Margaret Curtis	Chemistry
Frank Leesyl Trine	Chemistry

In the register of students below, the following abbreviations are used: F., S., J., Sr., means Freshman, Sophomore, Junior or Senior respectively; Sp., Special, Mu., Music.

REGISTER OF STUDENTS, 1919-20.

Abbey, J. Walker. J.	Alhambra, Calif.
Acker, Tecel Corona. Spl.	Prescott, Ariz.
Aldridge, Lois Beryl. Mu.	San Bernardino, Calif.
Allen, Lawrence John. F.	Redlands, Calif.
Anderson, Paul R. F.	Yucaipa, Calif.
Anderson, Donald S. C. S.	Redlands, Calif.

Andrews, Eleanor. S	Redlands, Calif.
Armstrong, Mary Elizabeth. F.	Redlands, Calif.
Axworthy, Cecil Troubridge. F.	Montclair, N. J.
Baker, Elmer Romer. F.	Redlands, Calif.
Barnes, Lewelleyn Wilson. F.	Esderlir, N. Dak.
Barrett, M. Virginia. J	Redlands, Calif.
Baughman, Helen Olive. Sp.	Redlands, Calif.
Beddall, Mabel Burkman. Sp	Redlands, Calif.
Belden, L. Burr. S.	San Diego, Calif.
Bell, Archibald Weir. S	Redlands, Calif.
Bennett, B. Malcolm. S.	Los Angeles, Calif.
Bentzien, Edith Katharine. F.	Pasadena, Calif.
Bigelow, Grace. F.	Selma, Calif.
Black, Bernice Marie. F	Redlands, Calif.
Blanc, Clara Bernice. S.	Julian, Calif.
Blowers, Ruth Anna. Sr.	Visalia, Calif.
Boling, Leon. F	Redlands, Calif.
Boulette, Marion Louise. F	National City, Calif.
Bourlier, Perry Leroy. F.	Redlands, Calif.
Branch, Clara Louise. F	Hermosa Beach, Calif.
Branch, James Delmar. F	Hermosa Beach, Calif.
Briggs, Mary Evelyn. F	Los Angeles, Calif.
Briscoe, Beryl . F	Fresno, Calif.
Brooks, Ralph W. S.	Ceres, Calif.
Brown, George Gardner. F	Long Beach, Calif.
Brownlie, Jean Alexander. Sr	Vallejo, Calif.
Bruington, Paul LeRoy. F.	Pomona, Calif.
Bryant, Elizabeth Arabella. S	Colorado Springs, Colo.
Bugbee, Grace. F	Clarendon, Texas
Bulmer, Marion Ray. S	Chula Vista, Calif.
Burkey, Ulysses. Mu	San Bernardino, Calif.
Burwell, L. C. Spl	Loma Linda, Calif.
Carlson, Roy Washington. S	Kingsburg, Calif.
Carpenter, Ben William. F	Los Angeles, Calif.
Cartwright, Vera Mae. F	Los Angeles, Calif.

Chadwick, Bernice Rebecca.	F	Redlands, Calif.
Chadwick, Ruth A.	Spl	Redlands, Calif.
Chadwick, Wallace L.	S	Redlands, Calif.
Champion, Joseph Homer.	F	Colton, Calif.
Christensen, Rozella Viola.	F	Selma, Calif.
Clemons, Gerard Lines.	F	Redlands, Calif.
Clock, Hope.	S	Redlands, Calif.
Coburn, Ruth Brunette.	F	National City, Calif.
Coggins, May Angelien.	Sr.	Phoenix, Ariz.
Cole, Lois Webster.	F	Pasadena, Calif.
Colley, Wm. L.	J.	Bowling Green, Ky.
Cook, Clyde.	S.	Redlands, Calif.
Cooper, Sidney Benjamin.	S.	Santa Barbara, Calif.
Cortner, Catherine.	Mu	Redlands, Calif.
Cortner, Edith.	Mu	Redlands, Calif.
Crandall, Alice Pennington.	S	National City, Cal.
Crowe, Cecil Morgan.	S	Ojai, Calif.
Cruickshank, Helen Elizabeth.	Sr.	Yucaipa, Calif.
Cruickshank, Ruth Marian.	F.	Yucaipa, Calif.
Cummings, Oliver deWolf.	J	Pasadena, Cal.
Cummings, William Vaughn.	J	Pasadena, Calif.
Cunningham, Herbert Leo.	S	Somis, Calif.
Cushing, Horace Samuel.	S.	Redlands, Calif.
Daniels, Lola.	J.	Redlands, Calif.
Daniels, Rose.	J	Redlands, Calif.
Darling, Henry Guilbert.	F	Redlands, Calif.
Davis, Grace Louise.	J	Clarendon, Texas
Davis, Sallie Belle.	Spl.	Clarendon, Texas
Davis, Ruth.	Spl.	Clarendon, Texas
Doromal, Eligio Garcia.	F.	Dunamgas, Eloilo, P. I.
Downer, Lewis Eastman.	S.	San Jose, Calif.
Dunham, Constance Estelle.	F	Yucaipa, Cal.
Dye, Beulah Flora.	Sr	Cutler, Calif.
Dye, Fred L.	Jr.	Redlands, Calif.
Dye, Mabel.	Jr.	Long Beach, Calif.

Eccles, Elizabeth Clark. F. ....Lemore, Calif.
Ellis, Ruth Haseltine. S..........................Long Beach, Calif.
Estes, Frederick Earl. Mu. ....Riverside, Calif.
Ewing, George Wendell. F. .... Highland, Calif.
Fagg, Fred Dow. Sr. ....San Diego, Calif.
Farquhar, Mildred Ethel. F. ....Redlands, Calif.
Farquhar, Vernon Douglas. J. ....Hollywood, Calif.
Ferguson, Joseph Stanley. F.......................Redlands, Calif.
Fessenden, Alvah Grant. F.........San Bernardino, Calif.
Finley, George H. S....................................Redlands, Calif.
Finley, Sarah Irene. Sr. ....Redlands, Calif.
Finn, Ruth Marian. F. ....San Diego, Calif.
Fish, Agnes. F. ....Corona, Calif.
Fitzsimmons, Helen. J...............................Redlands, Calif.
Fleming, Helen Jean. S. ....Elrod, Indiana
Ford, Fred Bennett. F. ....Hanford, Calif.
Ford, Helen Melvina. S. ....Ceres, Calif.
Foskett, Marjorie Lamont. Sr.............Los Angeles, Calif.
Fowler, Leland Dean. F. ....Redlands, Calif.
Francis, Mildred Mary. F.................Garden Grove, Calif.
Freeman, Mary Dorothy. Sr.................Long Beach, Calif.
Frenzell, Verena Marie. F..........................Redlands, Calif.
Frost, Rosamund. Mu................................Redlands, Calif.
Gair, Milton Marshall. S.................................Chicago, Ill.
Geary, Constance Jean. F. ....Red Bluff, Calif.
German, Georgena Vivian. F.........Garden Grove, Calif.
Gibson, Alice Marie. Spl..........................Redlands, Calif.
Gibson, Verona. S.......................................Redlands, Calif.
Gleason, Paul Ray. J.......................................Corona, Calif.
Grant, Evelyn Anderson. Sr. ....Santa Barbara, Calif.
Grassle, Pauline. F...Redlands, Calif.
Green, Albert Vernon. J. ....Long Beach, Calif.
Griffith, Palmer. F. ....Julian, Calif.
Grinnell, Charlotte Emma. Spl..................Tacoma, Wash.
Guely, Genevieve. F......................................Chesley, France

Harkness, Frances.	S	Redlands, Calif.
Harrison, Nicholas McCarty, Jr,	Spl	Indianapolis, Ind.
Hatcher, Abell Perry.	J	Redlands, Calif.
Hasty, Charles Gerald.	F	San Diego, Calif.
Hedstrom, Helen Sarah.	S	Anaheim, Calif.
Hemenway, Fraser.	Sr	Riverside, Calif.
Henderson, Ernest William.	S	Redlands, Calif.
Herrin, Harriett May.	F	Redlands, Calif.
Hill, Romayne Bradford.	Sr	Redlands, Calif.
Hockridge, Catherine Elizabeth.	F	Redlands, Calif.
Holmes, Stanley.	S	Oakland, Calif.
Hotchkiss, Lucile.	J.	Hollywood, Calif.
Howland, Grace Elizabeth.	Spl	Redlands, Calif.
Howland, F. Irene.	F	Los Angeles, Calif.
Hunter, Margaret McKenzie.	F	Los Angeles, Cal.
Innocencio, Felipe.	S.	Philippine Islands
Jacobs, Mrs. Fred H.	Mu	Redlands, Calif.
James, D. S.	Spl	Loma Linda, Calif.
Johnson, Lucille.	J.	Redlands, Calif.
Johnson, Marie Virginia.	Sr	Redlands, Calif.
Jones, Lillian Winifred.	Spl	Glendale, Calif.
Kay, Ruth Elizabeth.	F	Phoenix, Ariz.
Kelsey, Vesper.	F	Moorhead, Mont.
Kerrick, Josephine.	S	Colton, Calif.
Kilby, Colon O.	J	Coalinga, Calif.
Kilby, Izenia Neta.	J.	Coalinga, Calif.
Kincher, Helen Beulah.	Sr.	Redlands, Calif.
Kingan, R. W. James.	Spl	Pasadena, Calif.
Knights, Kenneth	Spl	Long Beach, Calif.
Knox, Irene.	S	Redlands, Calif.
Kubias, Rudolph Moulton.	S.	Redlands, Calif.
LaBar, Eva Lina.	J	Porterville, Calif.
Lackey, Dick.	S	Redlands, Calif.
Larsen, Ernest Robert.	F	Selma, Calif.
Lehigh, Helen A.	S	Phoenix, Ariz.

Levering, Lucy. S	Redlands, Calif.
Lindblom, Theresa. Spl	Redlands, Calif.
Loper, Harold. J	Redlands, Calif.
Loper, Theodore. F	Redlands, Calif.
Loyd, Florence Ary. F	Redlands, Calif.
Lyon, Lois Mabel. Sr	Redlands, Calif.
MacMillan, Mildred Margaret. S	Blythe, Calif.
MacMillan, Stuart Barclay. S	Pasadena, Calif.
May, William Horace. Spl	Orosi, Calif.
Marchant, Loia Mildred. J.	Tustin, Calif.
Marsh, Doris. Mu.	Redlands, Calif.
Marsh, Lucile Crews. Sr	Redlands, Calif.
Matteson, Howard Eugene. F.	Long Beach, Calif.
Maynard, David Perry. S.	Redlands, Calif.
McAllister, Mildred Adelaide. Mu.	Redlands, Calif.
McCready, Doris. S	Redlands, Calif.
McKericher, Melvin Stuart. F	San Francisco, Calif.
McMinn, Verne Leighton. F	Redlands, Calif.
McPhee, Douglas Gordon. S	Santa Paula, Calif.
McPheee, Clair Christine. J	Santa Paula, Calif.
Mick, Orville. F	Maricopa, Calif.
Miller, Helen Lenore. J	Los Angeles, Calif.
Morrow, Dorothy Ada. Spl	Highland, Calif.
Murphy, Ruth Elizabeth. J	San Pedro, Calif.
Myers, Leon Lercy. Spl	Redlands, Calif.
Neff, Virginia E. F	Long Beach, Calif.
Nelson, Dorothea Eckstorm. Sr	Redlands, Calif.
Netherton, A. Deidamia. Mu	Fort Smith, Ark.
Nicholson, Clarice. F	Redlands, Calif.
Osbun, Emmett. **F**	Redlands, Calif
Ogden, Colin Roberts. S	San Diego, Calif.
Oliver, Doris Gertrude. F	Long Beach, Calif.
Pallesen, V. W. Spl.	Kyellerup, Denmark
Paul, Wm. Howard. F	Redlands, Calif.
Phelps, Raymond Chester. F.	Redlands, Calif.

Powell, Herbert James.	Sr.	Redlands, Calif.
Poulson, Charles Leonard.	F.	Pasadena, Calif.
Pugh, Gwladys Jane.	S.	Redlands, Calif.
Puls, John Harold.	F.	Yucaipa, Calif.
Putnam, L. Marjorie.	S.	Redlands, Calif.
Randall, Clyde Somus.	S.	San Diego, Calif.
Reed, Frances.	Mus.	San Bernardino
Reeves, Zelda Fay.	F.	Downing, Calif.
Reynolds, Raymond Isaac.	S.	Redlands, Calif.
Richards, Walter John.	J.	Pasadena, Calif.
Richardson, William Duke.	Mu.	Redlands, Calif.
Roberts, Lucile Hannah.	J.	Pullman, Wash.
Robertson, Leanora Carter.	F.	Los Angeles, Calif.
Ronzone, Margaret Theresa.	F.	Redlands, Calif.
Ross, Charles Blake.	S.	San Diego, Calif.
Rouse, Gaylor, Jr.	Mu.	Riverside, Calif.
Russell, Virginia Lee.	F.	Los Angeles, Calif.
Sager, Clara.	Sr.	Winters, Calif.
Salisch, Lydia Anne.	F.	Long Beach, Calif.
Salmons, Harriet Ora.	F.	Palomar Mt., Calif.
Sawyer, W. Curtis.	Sr.	Redlands, Calif.
Sawyers, Ruth Leona.	Sr.	Santa Barbara, Calif.
Scott, Harold Hall.	J.	Redlands, Calif.
Scudder, Helen R.	Mu.	Cherry Chase, Md.
Seal, Harold Finch.	Sr.	Redlands, Calif
Shaw, Margaret Elizabeth.	F.	Sacramento, Calif.
Sheldon, Mary Dorothy.	F.	Perris, Calif.
Sherrard, Orville Groynne.	F.	Redlands, Calif.
Sievert, Guilio Ellsworth.	S.	Alhambra, Calif.
Sill, Arthur William.	Spl.	Perris, Calif.
Simpson, Harley Robert.	S.	Corning, Calif.
Skinner, S. Doris.	F.	Redlands, Calif.
Slutsk, Jacob	S.	Lemon Grove, Calif.
Smith, Chas. Davenport.	F.	Redlands, Calif.
Smith, Dwight Olney.	S.	Long Beach, Calif.
Smith, Hazel.	S.	So. Pasadena, Calif.

Smith, Horace Harvey. S.	Selma, Calif.
Smith, Houston Sherman. F.	Imperial, Calif.
Smith, Inez Lucile. J.	Monmouth, Ill.
Smith, Jesse Lewis. F.	Ojai, Calif.
Smith, Marjorie Eugenia. S.	Redlands, Calif.
Snell, Beryl Esther. J.	Redlands, Calif.
Southworth, Herbert Lindsay. F.	Redlands, Calif.
Springston, Christine. S.	Los Angeles, Calif.
Stack, Mary Louise. F.	Redlands, Calif.
Stannard, Raymond E. F.	Long Beach, Calif.
Stewart, Cecil C. S.	Corona, Calif.
Stockton, Georgia. S.	Redlands, Calif.
Stockton, Mary Catherine. F.	Redlands, Calif.
Stokely, Berlyn Henry. F.	
Stower, Emma K. S.	Beaumont, Calif.
Stower, Iola May. F.	Beaumont, Calif.
Strait, Maybelle Isabelle. Mu.	Redlands, Calif.
Stuart, Francis Eugene. S.	Exeter, Calif.
Sweeney, John Kenneth. F.	Redlands, Calif.
Tattersall, Kenneth L. S.	National City, Calif.
Taylor, Floyd S. F.	Redlands, Calif.
Taylor, John William Jr. F.	Santa Ana, Calif.
Taylor, Wyman Davis. F.	Redlands, Calif.
te Groen, Dick. S.	Long Beach, Calif.
Thomason, Julia Ruth. R.	Hollywood, Calif.
Tichenor, Norma Irene. F.	Pasadena, Calif.
Timpe, Imogene. Mu.	Yucaipa, Calif.
Tilton, Horace Scott. F.	Redlands, Calif.
Tinkham, Warren Ayer. J.	Redlands, Calif.
Tinker, Gwendolyn Maude. Sr.	Redlands, Calif.
Toeppler, Mrs. Edward S. Mu.	Highland, Calif.
Tolle, Glessner. Sr.	Redlands, Calif.
Tolleson, Elma S.	Phoenix, Ariz.
Tolleson, Walter G. S.	Phoenix, Ariz.
Triplett, Clyde Carroll. F.	Enderlin, N. D.
Troyer, William Carey. S.	Hollywood, Calif.

Truesdail, Roger William. J.	Redlands, Calif.
Turrill, Park Lovejoy. Sr	Long Beach, Calif
Untereiner, Raymond Edward, Sr	Redlands, Calif.
Uriegas, Minnie. J	Pueblo, Mexico
Violett, Ruth Bailey. F	Garden Grove, Calif.
Wagner, Florence J. J	San Jose, Calif.
Wall, Gladys. Sr	Selma, Calif.
Waterman, Chas. Merle. Sr	Pasadena, Calif.
Wedberg, Hilda, G. J	Redlands, Calif.
Weld, Max Lesslie. F.	Redlands, Calif.
Welch, Florence Elaine. Mu.	Redlands, Calif.
Welch, Marie de Lareafa. Mu.	Redlands, Calif.
Wente, Edith. J	Selma, Calif.
Wheat, Marjorie Elizabeth. F	Redlands, Calif.
White, Reginald Ed. F	Redlands, Calif.
Wightman, Don S. F	Long Beach, Calif.
Wilkes, Margaret Elizabeth. S	Redlands, Calif.
Wilkes, Vera. S.	Redlands, Calif.
Williams, Esther Jeannette. F	Corona, Calif.
Williams, Eva May. F	Redlands, Calif.
Williams, George L. S	La Mesa, Calif.
Willson, Donald James. F	Visalia, Calif.
Woodbury, Isabelle. S.	Riverside, Calif.
Woodworth, Esther. F.	Redlands, Calif.
Wright, Florence. J	Los Angeles, Calif.
Wright, Hortense Marian. S	Hanford, Calif.
Yount, Lloyd David. F	Redlands, Calif.
Yount, William Joseph. S	Redlands, Calif.
Zediker, Everest Pearce. S.	Pasadena, Calif.
Total enrollment	282

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1920/21

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UNIVERSITY
OF
REDLANDS
BULLETIN

Annual Catalog

Vol. XI MAY, 1921 No. 1

PUBLISHED QUARTERLY BY THE
UNIVERSITY OF REDLANDS

UNIVERSITY
of REDLANDS

Thirteenth
Annual Announcement

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1921-1922

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FACTS COMMERCIAL PRESS
REDLANDS, CAL.

CALENDAR

1921

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.		Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
						1	2								1
July	3	4	5	6	7	8	9	**Oct.**	2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
	24	25	26	27	28	29	30		23	24	25	26	27	28	29
	31								30	31					
Aug.		1	2	3	4	5	6	**Nov.**			1	2	3	4	5
	7	8	9	10	11	12	13		6	7	8	9	10	11	12
	14	15	16	17	18	19	20		13	14	15	16	17	18	19
	21	22	23	24	25	26	27		20	21	22	23	24	25	26
	28	29	30	31					27	28	29	30			
					1	2	3						1	2	3
Sep.	4	5	6	7	8	9	10	**Dec.**	4	5	6	7	8	9	10
	11	12	13	14	15	16	17		11	12	13	14	15	16	17
	18	19	20	21	22	23	24		18	19	20	21	22	23	24
	25	26	27	28	29	30			25	26	27	28	29	30	31

1922

															1
Jan.	1	2	3	4	5	6	7	**Apr.**	2	3	4	5	6	7	8
	8	9	10	11	12	13	14		9	10	11	12	13	14	15
	15	16	17	18	19	20	21		16	17	18	19	20	21	22
	22	23	54	22	26	27	28		23	24	25	26	27	28	29
	29	30	31						30						
				1	2	3	4			1	2	3	4	5	6
Feb.	5	6	7	8	9	10	11	**May**	7	8	9	10	11	12	13
	12	13	14	15	16	17	18		14	15	16	17	18	19	20
	19	20	21	22	23	24	25		21	22	23	24	25	26	27
	26	27	28						28	29	30	31			
				1	2	3	4						1	2	3
	5	6	7	8	9	10	11		4	5	6	7	8	9	10
Mar.	12	13	14	15	16	17	18	**June**	11	12	13	14	15	16	17
	19	20	21	22	23	24	25		18	19	20	21	22	23	24
	26	27	28	29	30	31			25	26	27	28	29	30	

Contents

Accrediting by U. of C. and Stanford, et al 41
Admission—College of Liberal Arts 29
    College of Fine Arts 95
Advanced Standing .... 31 and 96
Art Department 100
Astronomy 43
Athletics 79
Athletic Park 28
Biblical Studies 43
Board and Rooms 35
Board of Trustees 9
Botany 44
Buildings 21
Chemistry 46
Christian Associations 26
College Calendar 7
Colors 28
Concerts and Recitals 99
Courses—College of Fine Arts, Music 105
    Art 105
Degrees—Baccalaureate—College of Liberal Arts 29
        College of Fine Arts 97
Departments of Instruction (See Description of Courses))
Diplomas—College of Liberal Arts 29
    College of Fine Arts—Music 95
Dormitories 37
Economics 48
Education 74
Engineering 50
English 53
Events of the Past Year 17
Expenses—College of Liberal Arts 36
    College of Fine Arts 101
    Dormitory 37
Faculty 11
Fees (see Expenses)
French 59

CONTENTS

General Requirements, etc. 32
Geology 60
German 61
Glee Clubs .... 26 and 94
Grading 33
Graduates, 1920 114
Graduation (Requirements for)—College of Liberal Arts 41
College of Fine Arts 96
Greek 62
Gymnasium 24
Harmony 108
Historical 19
History 64
History of Art 104
History of Music 104
Hygiene 68
Latin 69
Library 39
Literary Societies 26
Majors and Minors 42
Mathematics 72
Matriculation 31
Museum 39
Music Credit for A. B. Degree 74
Music (see College of Fine Arts)
Organizations 25
Philosophy 74
Physics 80
Physical Education 78
Piano 105
Political Science 81
Prizes 40
Publications 27
Public School Music 107
Public Speaking 58
Register of Students 114
Registration 31
Requirements for Graduation—College of Liberal Arts 41
College of Fine Arts 96
Rooms, Rental 38
Schedule of Recitations 87-92
Scholarships 34
Sociology 48

Spanish **83**
Special Students **96**
Standing Committees **16**
Student Aid **34**
Theory **108**
Trustees **85**
Violin **110**
Voice **111**
Zoology **84**

College Calendar

1921

September 19th and 20th, Monday and Tuesday—Entrance examinations and registration for first semester.

Note—The Monday registration is especially intended for students living in and near Redlands

September 21st, Wednesday—First semester begins with Assembly, at 10:30 a. m.

November 24th, Thursday, to November 28th, Monday at 7:45 a. m., Thanksgiving recess.

December 16th, Friday—Christmas Vacation begins at 4:00 p. m.

1922

January 2nd, Monday—Christmas Vacation ends at 1:15 p. m.

January 31st to February 3 inclusive—Examinations for first semester.

February 6th, Monday—Second semester begins at 7:45 a. m.

February 26th, Sunday—Day of Prayer for Colleges.

March 24th, Friday—Spring Vacation begins at 4:00 p. m.

April 3rd, Monday—Spring Vacation ends at 1:15 p. m.

June 13th to 16th inclusive—Examinations for second semester.

June 17th, Saturday—Anniversary of the College of Fine Arts, Department of Music, 8:00 p. m.

June 18th, Sunday—Baccalaureate Sermon, 11:00 a. m. Service, 7:30 p. m.

June 19th, Monday evening—Annual Zanja Fiesta.

June 20th, Tuesday—Alumni meeting and banquet, 11:00 a. m.

Annual Meeting of the Board of Trustees, 10:30 a. m.

Class Day.

June 21st, Wednesday—Commencement, 10:30 a. m. College Dinner.

Board of Trustees

MEMBERS OF THE BOARD

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Weymouth Crowell, Los Angeles.
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J. H. Strait, Redlands.
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W. F. Harper, Los Angeles.
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Harry L. Boardman, Riverside.
J. W. Curtis, San Bernardino.

TERM EXPIRING 1923

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W. F. Wood, Glendale.
Geo. D. Knights, Long Beach.
James A. Francis, Los Angeles.
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Daniel Smiley, Redlands.
J. S. Runyan, Santa Ana.
F. O. Belden, San Diego.
C. W. Goodman, Phoenix, Ariz.

OFFICERS OF THE BOARD

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268 East Colorado
J. W. Curtis, Secretary - - - San Bernardino
680 E Street
Geo. P. Cortner, Business Manager and Treasurer.
J. Margaret Swope, Assistant Treasurer.

EXECUTIVE COMMITTEE

W. H. Fowler, Chairman.
J. H. Merriam, Vice-Chairman
J. W. Curtis, Secretary.
J. H. Strait.
Geo. D. Knights.
Mattison B. Jones
L. A. Boadway

Faculty

College of Liberal Arts

Victor LeRoy Duke, A. M., LL. D., President.
University of Redlands, 1909—.
Residence, 155 E. Cypress Avenue.

A. Harvey Collins, A. M., Registrar.
Professor of History.
University of Redlands, 1909—.
Residence, 522 Cajon Street.

James W. Kyle, A. M.
Professor of Ancient Languages.
University of Redlands, 1909—.
Residence, 621 N. University Street.

S. Guy Jones, B. S.
Professor of Chemistry.
University of Redlands, 1909—.
Residence, 646 Cajon Street.

George Robertson, A. B.
Professor of Zoology and Geology.
University of Redlands, 1909—
Residence, 256 Alvarado Street.

Herbert E. Wise, A. M.
Professor of Philosophy and Education.
University of Redlands, 1910—.
Residence, 614 Alvarado Street.

*Edith Abigail Hill, A. B.
Professor of Romance Languages.
University of Redlands, 1910—.
Residence, 14 Clifton Avenue.

*Absent on leave in France and Spain, 1920-21.

Herbert Eugene Marsh, B. S.
Professor of Physics and Engineering.
University of Redlands, 1912—
Residence, 618 East Fern Avenue.

Egbert Ray Nichols, A. M.
Professor of English Language and Literature
University of Redlands, 1913—.
Residence, 814 Campus Avenue.

*Ashel Cunningham, L.L. B.
Professor of Physical Education and Hygiene.
University of Redlands, 1913—.
Residence, California Hall.

*Resigned August, 1921.

Howard C. Tilton, A. M.
Professor of Social Science and Economics.
University of Redlands, 1914—.
Residence, 614 East Fern Avenue.

Mary Louise Todd, A. M.
Associate Professor of English.
University of Redlands, 1914—.
Residence, 211 East Colton Avenue.

FACULTY

Emma Kirtland Whiton, A. M.
Professor of Mathematics.
University of Redlands, 1918—.
Residence, Center and Walnut.

Howland C. Merrill, A. M.
Professor of Political Science and European History.
University of Redlands, 1920—
Residence, 518 West Olive Avenue.

***Clara D. Campbell**, A. M., Ph. D.
Acting Professor of French.
University of Redlands, 1920—
Residence, Wissahickon Inn.

*Resigned November, 1920.

E. E. Williams, A. M.
Associate Professor of Spanish and German
University of Redlands, 1920—
Residence, Orange Street and Sun Avenue.

Eda M. Falkland, A. B.
Associate Professor of Physical Education and Hygiene.
University of Redlands, 1920—
Residence, Fairmont Hall.

Helen L. Garrett, A. M.
Acting Professor of French.
University of Redlands, November, 1920—
Residence, 320 Stillman Avenne.

FREDERICK H. BILLINGS, A. M., Ph. D.
Professor of Botany and Bacteriology.
University of Redlands, 1921—
Residence, 1419 West Cypress Avenue.

EDGAR BATES VAN OSDEL, A. M.
Professor of Physics and Astronomy.
University of Redlands, 1921—.

FRANK H. REINSCH, A. M., Ph. D.
Professor of German and Spanish.
University of Redlands, 1921—

ELEANOR A. SYMMES, A. B.
Librarian.
University of Redlands, 1914—.
Residence, 510 Alvarado street.

College of Fine Arts

VICTOR LEROY DUKE, A. M., **LL.D., President·**

EZRI ALFRED BERTRAND.
Professor of Voice.
University of Redlands, 1919—
Residence, 402 Fourth Street.

CHARLES HOWARD MARSH. A. A. G. O.,
Professor of Piano and Theory.
University of Redlands, 1919—
Residence, 602 East Fern Avenue.

Kate Watkins.
Instructor in Drawing, Painting, Modeling, Lecturer in History of Art.
University of Redlands, 1913—.
Residence, University.

Flora Cordelia Cook, Mus. Bac.
Instructor in Piano.
Instructor in Harmony and History of Music.
University of Redlands, 1913—.
Residence, Cypress Court.

Frances Annette Cartlidge.
Associate Professor of Piano and Public School Music.
University of Redlands, 1915—.
Residence, 720 Cedar Avenue.

Joseph Zoellner.
Professor of Violin.
University of Redlands 1919—
Residence, Los Angeles.

HOUSE MOTHERS

***Mrs. Ola Finley** .... Bekins Hall
University of Redlands, 1918.
Miss Eda M. Falkland .... Fairmont Hall
University of Redlands, 1920—
Miss Ethol Brilhart .... Bekins Hall
University of Redlands, 1921—

HOUSE PROCTOR

Ashel Cunningham .... California Hall
University of Redlands, 1920—

*Resigned January, 1921.

STANDING COMMITTEES

1921-22.

The president is ex-officio a member of all committees.

Athletics—
S. Guy Jones, H. E. Marsh, F. H. Reinsch.

Christian Work—
H. E. Wise, E. B. Van Osdel, M. L. Todd.

Credentials—
A. H. Collins, F. H. Reinsch, H. C. Merrill.

Curriculum—
H. C. Tilton, S. G. Jones, E. A. Hill.

Discipline—
H. C. Tilton, F. H. Billings, E. K. Whiton.

Grounds—
J. W. Kyle, George Robertson, Business Manager G. P. Cortner.

Library—
H. E. Wise, H. C. Tilton, E. R. Nichols, W. H. Fowler from the Board of Trustees.

Museum—
George Robertson, F. H. Billings.

Prizes—
J. W. Kyle, H. E. Marsh, M. L. Todd.

Publications—
A. H. Collins, E. R. Nichols, E. K. Whiton.

Schedule—
S. G. Jones, A. H. Collins, H. C. Merrill.

Student Activities—
E. A. Hill, C. H. Marsh, E. B. Van Osdel, Eda M. Falkland.

Events of the Past Year

Saturday, June 12th, 8 p. m.—Commencement Concert of the College of Fine Arts.

Sunday, June 13th, 11 a. m.—Baccalaureate Sermon. Rev. Edwin F. Hallenbeck, D. D.

Sunday, June 13th, 7:30 p. m.—Sermon before the Christian Associations. Rev. A B. Murphy.

Monday, June 14th, 8 p. m.—Students' Zanja Fiesta.

Tuesday, June 15th, 10:30 a. m.—Semi-annual meeting of the Board of Trustees.

Tuesday, June 15th, 11 a. m.—Alumni Business Meeting and Luncheon.

Tuesday, June 15th, 3:30 p. m.—Class Day Exercises. Class of 1920.

Tuesday, June 15th, 8 p. m.—Reception by President and Mrs. Duke.

Wednesday, June 16th, 10:30 a. m.—Commencement Address. Rev. Daniel F. Fox, D. D. Conferring of Degrees by the President of the University.

Wednesday, June 16th, 12:30 p. m.—University Luncheon.

As during previous years the University of Redlands has during the year 1920-21 been fortunate in securing speakers for assembly addresses.

Among the noted speakers to whom the students have been privileged to listen may be noted the Reverend Dr.

Edward McMinn, of Alhambra, the donor of our fine mineral and fossil collection; Dr. R. M. West, Secretary of Life Service of the Northern Baptist Convention; Dr. L. C. Barnes, of the American Baptist Home Mission Society; Rev. W. A. Stanton, Missionary in South India; Dr. S. W. Cummings, Boston, Mass.; Rev. Samuel Skevington, of Hollywood; Dr. J. D. Springston, Educational Director of the Baptist Convention of Southern California; Rev. Alvah Fessenden of San Bernardino; Dr. W. L Ferguson, Madras, India; Dr. Jas. Franklin, Foreign secretary of the American Baptist Foreign Mission Society; Dr. James Asa White, Secretary of B. Y. P. U. of America; Dr. Gettel, Amherst College, Mass.; Dr. John A. Frey, Riga, Russia.

University of Redlands

HISTORICAL

On the seventh day of December, 1906, the Baptists of Southern California, in Convention assembled in Berean Hall, Los Angeles, resolved to found and foster a high grade Christian college. A committee of twenty-one representative men was appointed to select the location for the college, manage the campaign for a Founding Fund and organize the institution.

The canvass for a Founding Fund of $300,000 was begun the first of September, 1907, and so hearty was the response that at the Convention held in Los Angeles in January, 1909, the Committee was able to announce the assured success of the movement.

The location of the college at Redlands was due both to the acknowledged fitness of the city as a home for such an institution and the generous offer of a campus of forty acres and $100,000 toward the Founding Fund. To the forty acres given by Redlands for a campus has since been added thirty-three acres, including the beautiful University Hill, now occupied by the Administration Building, the Hall of Science, and the President's residence.

The University of Redlands was incorporated under that title in 1907. On September 29th, 1909, less than three years from the time of the inception of the movement, the institution threw open its doors to the public.

The College of Liberal Arts was organized and continued thru the first semester of 1909-10 in the Bible School rooms of the First Baptist Church of Redlands. In February, 1910, the ample Administration Building was occupied.

From the beginning a College of Fine Arts has been a prominent feature of the plans for the University. The work of this college was carried on in Bekins Hall until 1914, since which time the rapid growth of this college has made necessary the temporary adaptation of the President's official residence for the housing of this department. The permanent buildings of the College of Fine Arts are now being constructed at the North end of the quadrangle.

LOCATION

Redlands, the home of the University, is a beautiful city of 10,000 inhabitants, situated sixty-six miles east of Los Angeles, in the heart of the largest orange growing district in the world, and close to the San Bernardino mountains. On account of the elevation of 1400 feet, the city has as nearly an ideal climate as it is possible to find, sometimes touching the frost point in winter, warm in summer; but, even the warmest summer months, always having cool and restful nights. Steam, trolley and automobile transportation connect Redlands with Los Angeles and other nearby cities.

BUILDINGS

The College buildings, including those in process of erection, now number eleven, seven of which number are permanent, well-planned structures, modern and thoroly equipped. These buildings, of gray concrete with red tile roofing, form a picturesque group about the quadrangle, and comprise a substantial nucleus of a preconceived plan for a conveniently arranged and unusually attractive campus.

ADMINISTRATION BUILDING

The main building of the University scheme was completed in 1910. It is centrally located upon the crest of University Hill, affording a view of the campus and of a vast panorama of marvelously beautiful country. The massive structure and commanding position of this building make it an imposing land-mark. It contains the administrative and business offices, lecture and recitation rooms of the College of Liberal Arts and two assembly halls for meetings of the Christian Associations. Here also are to be found the temporary homes of the Library, the College Book-store and the Museum.

THE HALL OF SCIENCE

The corner stone of the new Hall of Science was laid January 13, 1920. This building costing $160,000, is a reinforced concrete structure. It is fire-proof, well lighted and properly ventilated.

The departments of Physics and Engineering occupy the first floor. This contains two lecture rooms, fully equipped mechanical drawing and blue print rooms, a balance room, the departmental library and three laboratories, for general, optical, and electrical work. Special features of the general laboratory are an experimental switch board for both direct and alternating currents and tubes supplied with electrical connections, gas and compressed air. The second floor is devoted entirely to the departments of Biology and Geology. There are four Biological laboratories, two for Botany and two for Zoology; a Geological laboratory, two lecture rooms and three stock rooms. The third floor is devoted exclusively to the department of Chemistry. Here are four laboratories for the study of General, Quantitative, Organic, and Physical Chemistry. Other special features of this floor are the departmental library, two balance rooms, stock rooms and a photographic dark-room.

THE FINE ARTS BUILDING

One of the two proposed wings of the Fine Arts group is now in process of construction, at the north end of the quadrangle. According to the campus plan these buildings are later to be joined by colonades to an auditorium which will offer seating capacity for about 1200.

WOMEN'S DORMITORIES

BEKINS HALL

Bekins Hall, the gift of Mr. and Mrs. Martin Bekins, of Los Angeles, was completed and occupied in October,

1910. The building is classic in architecture and absolutely fireproof in construction. It contains rooms for the accommodation of fifty-six young women, besides reception rooms, dining hall and kitchen, and a specially equipped laundry. Many of the rooms are connected with private baths. Ample verandas and a roof garden foster out-door life.

FAIRMONT HALL

Fairmont Hall, a second dormitory for women, the gift of another generous friend, was completed and occupied early in the College year of 1920-21. This beautiful hall stands somewhat to the north of Bekins Hall and in architectural plan is similar to the latter building. This hall accommodates fifty-two women.

MEN'S DORMITORIES

CALIFORNIA HALL

California Hall, the new dormitory for men stands at the east side of the quadrangle and near to the athletic field. This building, beautiful in appointments and architectural plan, affords an attractive and comfortable home for fifty-six men. Each floor is equipped with shower baths. Club and game rooms, a large dining room and a kitchen occupy the lower floor.

REAVIS HALL

Reavis Hall, a second men's dormitory named in honor of the late Benjamin H. Reavis, of Orange, Cal., provides accommodations for about eighteen men.

THE PRESIDENT'S HOME

To the east of the Administration Building, on University Hill stands the spacious and attractive home of the President. The fund for this building was largely the gift of the late Mrs. Julia A. Libby of Santa Ana, California.

ASSEMBLY HALL

Among the shady trees bordering the Zanja is the Assembly Hall, erected in the fall of 1918. The hall is provided with stage and dressing rooms.

In addition to its use for the daily assembly of faculty and students, it furnishes a center for social and literary entertainments.

GYMNASIUM

At the northeast corner of the Campus and beyond the athletic field stands the Gymnasium. It consists of two units; the first containing showers, dressing rooms and lockers for men, the second and adjacent to the first is the gymnasium proper with a floor space 40 feet by 45 feet for measurements, apparatus and rooms for visiting teams; a game and calisthenic floor 40 feet by 75 feet, also seating for about 400 spectators. All well lighted and ventilated. In this second unit are the well-equipped showers and dressing rooms for women.

ORGANIZATIONS

ASSOCIATED STUDENT BODY

The Associated Student Body is composed of all the students matriculated in the two colleges of the University. Its officers are chosen by the student body from their own number. Regular meetings are held each week to deal with matters of general interest to all students.

PI KAPPA DELTA

The University of Redlands has a chapter of Pi Kappa Delta, a forensic honor society organized among colleges of the Middle West in January, 1913. All orators and debaters who represent the institution in intercollegiate contests are eligible to membership and are elected upon application. The organization confers an honorary key which is jewelled to show the achievement in forensics attained by the wearer.

THETA ALPHA PHI

Theta Alpha Phi is a national honor society for students who take part in dramatic activities. It was organized in December, 1919, at the meeting of the National Association of English and Public Speaking Teachers in Chicago. It now has twenty-two chapters in various colleges and universities of the country and is growing rapidly. It publishes a quarterly magazine called "The Cue". The University of Redlands has the California Alpha chapter.

CHRISTIAN ASSOCIATIONS

Branches of the College Departments of the Young Men's Christian Association and the Young Women's Christian Association are doing active and effective work. Each association holds a weekly meeting. Representatives from the societies are sent to the Bible and General Conferences for Colleges. The good effect of these Christian organizations is very marked in the daily life of the student body. Every encouragement and assistance is given these organizations by the faculty.

COLLEGE GLEE CLUBS

The Men's Glee Club of the University in its fifth year of organization has grown in popularity. A successful trip was made thru portions of Southern California during the Spring vacation.

The Women's Glee Club of the University, organized in 1917, comprises some 20 splendid voices. With the Director the Club gave several successful entertainments thruout the San Joaquin Valley during the spring vacation.

LE POSTE D' ECOUTE

The literary societies for women, formerly in existence, have been merged under the name Le Poste d' Ecoute, the listening posts from which information concerning the enemy is sent back thru the communicating trenches.

According to the name, the objects of this organization are to promote interest and alertness in all cultural lines and to promote literary, social and patriotic standards among the women of the University.

Membership is open to the women of the University who maintain a high standard of excellence in their work.

HELLENIC CLUB

The Hellenic Club, including all students of Greek, meets Friday afternoons twice a month for conversation in Modern Greek and reading stories. Greek cookery is illustrated in the refreshments.

COLLEGE PUBLICATIONS

The University of Redlands publishes a quarterly bulletin, one number of which is the annual catalog. The other three are devoted to special studies and reports of officers and other matters of importance.

STUDENT PUBLICATIONS

The Campus, a weekly paper published by the Associated Student Body through an elected staff, on the merit basis, is an exponent of the student life and activities of the University.

The Campus is a charter member of two Intercollegiate Press Associations. The Southwestern Press Association, which conducts a weekly news service and the Western Press Association. Delegates from The Campus staff attended the annual conventions of both these associations during the year 1920-21. Moreover the editorial room of The Campus is one of the three points west of the Mississippi River from which collegiate news is distributed.

LA LETRA

La Letra, The University Annual, is published by a special staff chosen by the student body and is devoted to the features of the University life for the year.

The Annual comes from the press about June First of each year, and is eagerly awaited by all those connected with the University.

COLORS

The official colors of the University of Redlands are Maroon and Silver Gray.

ATHLETIC PARK

The athletic park contains a 220-yard straight-away and an oval four-lap track, both in excellent condition. Inside the oval the football field is laid out.

To the east of the football field an additional ten acres has recently been secured on which a first-class baseball diamond has been laid out. New bleachers have been constructed and the entire field enclosed.

College of Liberal Arts

ADMISSIONS

Every student, unless he brings a certificate of proficiency from an accredited school, shall before entering any class in the collegiate department, be examined upon the following subjects required for entrance:

In the College of Liberal Arts the University of Redlands offers courses leading to the Bachelor of Arts degree with the following:

ENTRANCE UNITS

A total of fifteen units, twelve (12) of which must be recommended as follows:

English	2 units
Algebra	1 unit
Plane Geometry	1 unit
A Laboratory Science	1 unit
U. S. History and Civics	1 unit
The remainder of the 12 to be taken from the list on page 30 (1-34)	6 units
Electives	3 units
Total	15 units

DESIRABLE

That 2 of the 12 units should be in a foreign language.

No credit will be given for one unit in a foreign language unless supplemented by an additional semester in the same language in college.

In the list of subjects enumerated above the term unit is employed to signify the amount of preparatory work done in a given subject during a school year.

ADMISSION BY CERTIFICATE

Graduates of approved high schools or academies will be given credit for any of the subjects listed below in which they are recommended. Blanks for such recommendation will be furnished on application to the University, and it is expected that all applicants for admission, without examination, will use them.

In the list of admission subjects enumerated below the term unit is understood to represent five recitations per week of forty-five minutes each, four recitations per week of sixty minutes each throughout one school year, or equivalent. A detailed description of the essential subjects may be found in the printed lists of the American College entrance requirements.

1.	English, Elementary	2
2.	English, Advanced (3rd yr.)	1
3.	English, Advanced (4th yr)	1
4.	Algebra, Elementary	1
5.	Algebra, Intermediate	½
6.	Plane Geometry	1
7.	Solid Geometry	½
8.	Plane Trigonometry	½
9.	Ancient History	1
10.	Mediaeval and Mod. His.	1
11.	English History	1
12.	History and Gov't of U. S.	1
13.	Economics	½, 1
14.	Latin, Element. & Caesar	2
15.	Cicero & Latin Comp.	1
16.	Vergil & Latin Comp.	1
17.	Greek, Elem. & Xenophon	1
18.	Homer and Greek Comp	1
19.	German, Elementary	2
20.	German, Intermediate	1
21.	German, Advanced	1
22.	French, Elementary	2
23.	French, Intermediate	1
24.	French, Advanced	1
25.	Spanish, Elementary	2
26.	Spanish, Intermediate	1
27.	Spanish, Advanced	1
28.	Physics	1
29.	Chemistry	1
30.	Botany	1
31.	Zoology	1
32.	Physiology	1
33.	Phisical Geography	1
34.	General Science	1
35.	Free-hand Drawing	½, 1
36.	Mechanical Drawing	½, 1
37.	Music	½, 1
38.	Vocational Subjects	1, 2, 3

Half units will be accepted only when presented in addition to a whole unit in the same subject or in closely allied subjects, such as economics and history, except in industrial arts, agriculture, music, etc., as indicated above.

ADVANCED STANDING

Credit without examinations for work done in other institutions will be granted only upon receipt of a satisfactory certificate mailed to the University of Redlands by the proper official of the institution in which the work was done.

A student from another institution of equal scholastic rank may be admitted to advanced standing in the University upon presentation to the committee having charge of credits satisfactory evidence of having completed the work claimed, together with a certificate of honorable dismissal.

Students failing to satisfy any of the above requirements for admission may be received on condition, but such condition must be removed before said students are admitted to the Junior Class.

MATRICULATION AND REGISTRATION

Each student desiring to register is required to present himself to the President, who will advise with him and direct him to the registration committee.

Students are urged to register on the designated registration days. Absences from classes are counted from the day on which instruction begins. No registration is complete until fees due the institution are paid or arranged for. Any student wishing to discontinue a course or in any way change his registration will proceed as in the original registration.

Students enrolled for the first semester and registering for the second semester will be expected to register during the month of January before the examinations for the first semester begin. An extra fee of one dollar, for late registration, will be charged the student whose registration is not completed during this period. No registration is complete until all fees due the University are paid or arranged for.

GENERAL REQUIREMENTS AND REGULATIONS

Persons not candidates for any degree may be admitted to the University as special students, provided they are of mature age and give the faculty satisfactory evidence that they are properly qualified to do work creditably and with profit.

Special students may select their studies without reference to the sequence of courses, but otherwise are subject to the general regulations governing the student body. Such students may at any time become candidates for degrees by conforming to the regular requirements.

No student who has registered for regular work can change his status to that of a special student without permission from the faculty.

A student withdrawing from the University before the work of any semester has been completed shall thereby forfeit all credits for that semester; but at the discretion of the instructor such student, upon returning to college, may resume a subject at the point dropped and carry it to completion.

No regular student in the Freshman or Sophomore class is allowed to carry more than 18 hours or less than 12 hours, except by special action of the faculty.

No regular student of the Junior or Senior class is allowed to carry more than 16 hours or less than 12 hours without special permission of the faculty.

Any student to be eligible to represent the university in forensics, dramatics, as a member of a glee club, or as an officer, or as manager of an activity, or in any other capacity:

1. Must be a regular student (except as authorized in "4".)
2. Must have earned 12 semester hours and fifteen credit points during the preceding semester (except as this conflicts with "3".)
3. Must be passing in 12 hours during the current semester. In the case of debates, plays, and glee club trips, eligibility in this particular will be determined one month prior to the time scheduled for the event.
4. Upon recommendation of the one having the activity in charge a special student may, by vote of the faculty, be allowed to participate.
5. These eligibility rules shall not apply to athletics, eligibility in this case being determined by rules of the Intercollegiate Conference.

Each student must take a final examination before receiving credit in any course, except that in the second semester a student completing the necessary work for a degree shall not be required to take an examination in those courses in which his daily grade for that semester is "B."

SCHOLARSHIP GRADING

The following system of grading and awarding of points is used in the University of Redlands:

A denotes an excellent grade of work.
B denote a good grade of work.
C denotes average work.
D denotees passing, but poor grade of work.
E denotes conditioned.
F denotes failed.
I denotes incomplete.
W denotes withdrawn.

In addition to the 126 semester hours required for graduation, 126 points shall likewise be required to be obtained on the following basis:

Each semester hour of grade A shall command 3 points.
Each semester hour of grade B shall command 2 points.
Each semester hour of grade C shall command 1 point.
Each semester hour of grade D shall command 0 point.

Note:—Any student failing in any year to secure credit points to the number equal to at least two-thirds the number of hours taken, shall appear before a committee of the faculty to show cause why he should continue his work.

A condition in any course may be removed before the course is again offered in accordance with the requirements made by the instructor concerned. A fee of $2.00 is charged for each extra or special examination, except that if a student is forced to be absent from all the examinations of the semester, the fee for the entire number shall not exceed $5.00.

Members of the Senior class who are candidates for graduation are required to remove all "incompletes" and "conditions" necessary for graduation before the close of the spring vacation.

SCHOLARSHIPS—STUDENT AID

A number of scholarships have been endowed by friends of the University, the income derived from such funds being devoted to defraying the tuition fees in the College of Liberal Arts of the students to whom they are assigned. These scholarships are awarded to those students who are in need of aid in securing a college education. In the awarding of these scholarships, the grade of work which has been done and is being done by the student is taken into consideration. A student receiving such aid is expected to conduct himself in a way which is for the best interest of the institution. He may be asked to render some light service to the institution which will not interfere with his studies.

The University aids some student by giving them work about the campus and in the buildings and co-operates with students in securing work about the city. Students who are thus helped are expected to give value received and to co-operate in maintaining a good spirit in the University.

DORMITORIES, ROOM AND BOARD

All students who are not living at home with their families or immediate relatives are required to live in the college dormitories, unless excused by the Faculty. The dormitories are of re-enforced concrete construction, fire proof, equipped with all the modern conveniences and well furnished. Special attention has been given to ventilation in keeping with the climatic conditions in Southern California. In each dormitory there is a well equipped laundry with stationary tubs, electric irons and other conveniences for the use of the house. Provision is made for the social life of the students in the reception halls, the club rooms and the recreation rooms. Each building is in charge of a competent house-mother or proctor, who takes a personal interest in the individual student. It is the purpose of the management to approximate as nearly as possible home life in these dormitories.

A reservation for the academic year 1921-22 may be made at any time by depositing five dollars with the University.

This deposit will be credited toward the payment of the room rent for the first semester. Should a student cancel the reservation the fee will be refunded provided such cancellation is made before September first of that year.

EXPENSES

It is believed that the necessary expenses at the University of Redlands are as low as is consistent with the high character of the work done. The following schedule will serve to indicate the principal items:

Matriculation Fee: Payable once, at time of first registration:	
College of Liberal Arts and Fine Arts	$5.00
Tuition per semester, payable in advance:	
Colleges of Liberal Arts	57.50
Registration Fee per Semester:	
College of Liberal Arts and Fine Arts	$5.00
Graduation Fee	$5.00
Laboratory Fees:	
Chemistry, for each course, except as noted in description of courses, per semester	$8.00
Botany, for each course, except as noted in description of courses, per semester	$2.00 to $8.00
Physics, for each course, per semester	$5.00
Zoology, for each course, per semester	$2.00

A deposit of five dollars ($5.00) is required in Chemistry to cover breakage. This deposit, less cost of breakage, is refunded at the end of the year.

In some of the courses in Botany a small breakage fee is charged. See description of courses.

No breakage deposit is required in Physics, but an account is kept of all breakages and a charge is made therefor.

Students carrying not more than five hours of work will be charged one-third of the regular tuition fee; those carrying from six to ten hours inclusive, will be charged two-thirds of the regular fee, and those carrying more than ten hours will pay the full fee.

Students preparing for the ministry and children of ministers and missionaries will be granted a discount of 50 per cent on tuition fees in the College of Liberal Arts.

For charge in case of special examination see page 34.

Special attention is called to the fact that the charge for tuition includes gymnasium, library and all incidental fees other than the matriculatin, registration and graduation fees, and those pertaining to laboratory courses.

All fees are payable in advance for the semester. No student is entitled to admission to class until the fees for that course have been paid or arranged for. There will be no refund of fees unless the student is forced to leave the university on account of illness, in which case a fair adjustment will be made.

DORMITORIES

It is the purpose of the Board of Trustees of the University of Redlands to furnish board and room to the students at a rate as low as is consistent with proper living conditions. They feel that the accommodations should be up to standard in every way. The surroundings should be pleasant. The food should be wholesome and there should be a sufficient supply. The prices have been fixed with the intent that the bare running expenses of these departments shall be met. These prices are subject to change should there be any decided change in living costs.

The majority of the rooms in the dormitories are arranged for two occupants. The beds are single and provided with mattresses six feet two inches by three feet and pillows twenty-three by thirty inches.

Each student is expected to furnish bed covers, linen, towels, etc.

All dormitories have baths on each floor. In the women's dormitories there are some rooms with bath adjoining.

ROOM RENT

Room without bath adjoining, each occupant, per semester	$30.00
Room with bath adjoining, each occupant, per semester	$42.50

In one of the dormitories for women there are a few less desirable rooms which are rented for Twenty Dollars per semester for each occupant.

Room rent is payable by the semester in advance. If the student is forced to leave the university before the end of the semester on account of illness, a fair adjustment of the rent will be made. The university reserves the right to dismiss from the dormitory, without rebate, any student who has shown himself a disturbing or undesirable character.

TABLE BOARD

In the dormitories for women the price for table board is twenty-four dollars per month. If payment for the semester is made in advance, a discount of three percent is allowed.

In the dormitories for men the dining room is run on the co-operative plan by an organization of the men known as the "Co-operative Club." The cost for table board under this arrangement is approximately twenty-five dollars per month. The club requires that payment for table board be made in advance; accordingly each member is required to make a deposit of twenty-five dollars at the time of registration, and at the beginning of each calendar month thereafter such payment as agreed upon by the club. At the end of the school year a final settlement is made, and any surplus on hand is refunded to the individual members pro rata.

The dormitories will be open for students for the academic year 1921-22 September 17 and will be closed at the end of the year June 22.

The dormitories will be closed during the Christmas vacation from Saturday evening, December 17 to Saturday, December 31st and during the Spring vacation from Saturday evening, March 25th to Saturday evening, April 1st, unless a number of students desire to remain, in which case arrangements must be made with those in charge of the dormitory at least ten days before the beginning of the vacation period.

The necessary expenses, including room, board, tuition, books, will average about $400 to $450 for the year.

LIBRARY

The library of 10,000 volumes and several thousand unbound magazines and pamphlets, contains especially well selected works on all subjects included in the curriculum.

Moreover, through the courtesy of the A. K. Smiley Public Library of Redlands, with 34,550 volumes, the University Library is a depository, thruout the college year, for such books as the different departments may from time to time require.

THE MUSEUM

The departments of Geology and Biology are fortunate in the possession of a very large and rare collection of minerals, shells, fossils, insects and birds. These specimens are being temporarily housed in the Administration Building. Among the more important exhibits are the collection of shells given by Mrs. H. A. Bates; the collection of minerals and fossils given by Dr. J. D. Easter; some valuable duplicate fossils of the La Coe Collection of the Smithsonian Institute; an indefinite loan from the City of Redlands of the Mrs. Francis A. L. Smith collection of shells, fossils, and birds from all parts of the world and a collection of California birds, minerals and fossils obtained from the California College formerly at Oakland. The Reverend Edwin MacMinn, D. D., recently presented to the University a collection of minerals and fossils comprising one of the largest and most valuable privately owned mineralogical exhibits in the United States. The University also has the permanent use of the collections belonging to Professor George Robertson and of the Sharp Collection of insects indigenous to the Philippine Islands.

PRIZES

The following prizes have been offered to the students of the University for the year 1920-21 to be awarded on Commencement Day:

1. For the best original oration delivered by a regular student of the University of Redlands at the annual Oratorical Contest, on the third Friday of January, a gold medal or a prize of $25 is offered by the President of the Board of Trustees of the University, Mr. Mattison B. Jones, of Los Angeles.

2. For the best extempore speech delivered by a regular student of the University at the annual Contest in Extempore Speaking on the first Friday in December, a prize of $25 is offered by Mr. W. H. Fowler, of Los Angeles, member of the Board of Trustees.

3. For general efficiency in college work, including scholarship and the various student activities a first prize of $15 is offered by Prof. J. W. Kyle of the University.

4. For the best college song, original verse written by a student of the University of Redlands and adapted to the tune of "Fair Harvard," a prize of $100 is offered by a friend of the University.

ACCREDITING

The work of the University of Redlands will be accepted by the University of California or Leland Stanford, Jr., University for admission to Sophomore, Junior, Senior or Graduate standing.

Harvard University and Columbia University have accepted our graduates to graduate standing without condition, as candidates for the Master's Degree.

Requirements for Graduation

Candidates for degrees will be required to recognize the sequence of courses in selecting their work unless excused by the faculty.

No student shall be permitted to graduate from the College of Liberal Arts of the University who has not credit for at least 126 hours and 126 credit points, and who has not taken at least one year of the regular work at the University.

A student to be admitted to Junior standing must have satisfactorilly completed the following requirements:

(a) Including the 15 units of entrance credit, each high school unit being regarded as 3 semester hours, a total of 111 semester hours shall be required for admission to Junior standing, and 66 of these must be taken in college.

(b) The required 111 hours shall include the following minimum specifications:

English, 18 hours including English 1 and 2, unless the student shall pass a satisfactory examination in English 1 and 2.

Foreign Language, 14 hours to be offered in not more than two languages and not less than six hours in any one.

Mathematics, 12 hours at least three of which must be taken in college.

History, 12 hours at least six of which must be taken in college.

Laboratory Science, 14 hours at least eight of which must be taken in college.

Physical Education, 4 hours all to be taken in college.

Hygiene, 2 hours to be taken in college.

Of the remaining 60 hours required for graduation, all shall be elective except three (3) hours of Psychology.

In addition to the above requirements for the Bachelor of Arts Degree, the candidate must satisfy the conditions for a major as defined below.

Every candidate for a degree is required to select a major and signify the same to the Registrar and the head of the department in which he selects his major. Such selection may well be postponed until the Sophomore year but not later than that time, without special permission.

A major shall consist of twenty-four hours in one department, from courses classified by that department as majors and at least twelve hours must be from courses classified as "Junior and Senior."

As soon as a student has decided on a major he shall choose his minor in conference with the head of the department in which he has chosen his major.

A minor shall consist of at least nine hours from courses which may be counted toward a major in any department.

At least thirty-six hours of the courses carried during the Junior and Senior years shall be chosen from courses numbered 100 or above.

Description of Courses

The scheme of numbering the courses scheduled below and adopted by the University of Redlands is as follows:

Courses numbered from 1 to 99 are Lower Division Courses and are open to Freshmen and Sophomores and courses numbered 100 and above are Upper Division Courses and are open to Juniors and Seniors only, except by special permission of the Department.

ASTRONOMY

E. B. Van Osdel

2. Descriptive and General Astronomy

   A study of the heavenly bodies, their constitution, laws of motion, physical properties and the processes by which man discovers these facts.
   Prerequisite, Mathematics 1 and 2.
   Three hours, second semester.

BIBLICAL STUDIES

Herbert E. Wise

Crawford Professor of English Bible and Cognate Studies

1. The Life of Jesus. Study is made of the historical situation, sources of the Synoptics, together with the religious development and characteristic traits of Jesus.
   Two hours, first semester.

2. The Social and Ethical Teachings of Jesus and their application to Modern Life.
Two hours, second semester.

*3. The Apostolic Age. New Testament Times; expansion of Christianity; distinguishing features of the Pauline Epistles-Galatians, Corinthians and Romans.
Text, lectures, maps and reports.
Two hours per week, first semester.

*4. Continuation of 3.

Epistles of Paul's imprisonment; Epistle to the Hebrews.
Two hours per week, second semester.

*Omitted in 1921-22.

BOTANY

Frederick H. Billings

Courses 1 and 2 will not be accepted as majors.

1 AND 2. GENERAL MORPHOLOGY OF PLANTS

A study of both gross and microscopic structure of plants, their methods of reproduction and their phylogeny. A general survey of the vegetable kingdom and a prerequisite for other courses in botany.
Two lectures or recitations and two laboratory periods, both semesters.
Laboratory fee, $3.00 per semester; breakage $1.00.

101. BACTERIOLOGY

A general course including the preparation of culture media, growth and morphology of bacteria, their staining reactions, physiological activity and economic importance.

One lecture and three laboratory periods first semester. Additional prerequisite, Chemistry 1 and 2 or equivalent.
Laboratory fee, $8.00 per semester; breakage $2.00.

102. SPERMATOPHYTES

Types of seed plants including trees, shrubs, grasses, and many of the commoner herbaceous flowering plants will be studied largely from a taxonomic standpoint.
One lecture and two laboratory periods second semester.
Laboratory fee, $2.00 per semester.

103 AND 104. THALLOPHYTES

General morphology, reproduction and relationships of the lower orders of plants, including algae and fungi. Species that cause disease in plants will receive special consideration.
One lecture and two laboratory periods, both semesters.
Laboratory fee, $3.00 per semester.

*105. PLANT PHYSIOLOGY

An experimental investigation into how plants grow, the functions of their organs and their behavior under various environmental conditions.
One lecture or recitation and two laboratory periods first semester.
Laboratory fee, $5.00 per semester.

*106. PLANT ANATOMY

Microscopic structure of plant tissues, including histological technique as embedding, sectioning and staining.

One lecture or recitation and two laboratory periods, second semester.

Laboratory fee, $3.00 per semester.

*107 AND 108. SPECIAL MORPHOLOGY OR TAXONOMY

A detailed study of a selected plant or group of plants, with respect to embryology, structure, classification, or other phase of investigation chosen by the student.

Original work with the preparation of a thesis.

Open to those having sufficient preliminary training for the topic assigned.

Three laboratory periods with collateral reading, both semesters.

Laboratory fee, $2.00 per semester.

*Not offered in 1921-22.

CHEMISTRY

S. Guy Jones

Courses 1 and 2 will not be accepted toward a major.

1 AND 2. ELEMENTS OF CHEMISTRY

An introductory course intended for those who do not offer matriculation Chemistry.

Two recitations and two laboratory periods, both semesters.

3 AND 4. GENERAL INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS

An advanced course in general and theoretical chemistry, accompanied by a laboratory course in qualitative analysis. Analysis for positive ions, first semester. Analysis for negative ions and determination of the composition of natural and commercial products, second semester.

Prerequisite, Matriculation Chemistry or Chemistry 1 and 2.

Two recitations and two laboratory periods, both semesters.

5 AND 6. QUANTITATIVE ANALYSIS

General methods of Gravimetric and Volumetric Analysis.

Prerequisite, Chemistry 3 and 4.

Three laboratory periods, both semesters.

7 AND 8. SANITARY AND APPLIED CHEMISTRY

A study of Chemistry as applied to the problems of every day life—e. g. water, air, heating, lighting, ventilation, cleaning, disinfectants, antiseptics, foods, beverages, etc.

Prerequisite, Matriculation Chemistry or Chemistry 1 and 2.

101 AND 102. ORGANIC CHEMISTRY

A study of the compounds of Carbon. Laboratory work in the preparation of organic compounds and the study of their properties.

Prerequisite, Chemistry 3 and 4.

Two recitations and two laboratory periods, both semesters.

Laboratory fee, $10.00 per semester.

103 AND 104. PHYSICAL CHEMISTRY

A course in the fundamentals of Physical Chemistry.

The study of the properties of gases, liquids, solids and solutions. Also rate of chemical change and chemical equilibrium.
Prerequisite, Chemistry 3 and 4.
Two recitation-lecture periods and two laboratory periods, both semesters.

105 AND 106. INORGANIC PREPARATIONS

Study of the accepted methods of preparing the principal inorganic compounds.
Prerequisite, Chemistry 3 and 4.
Three laboratory periods, both semesters.

107 AND 108. STOICHIOMETRY

A course in Chemical Arithmetic, which should accompany or follow Chemistry 5-6.
One period, both semesters.

109 AND 110. ADVANCED QUANTITATIVE CHEMISTRY

An advanced course in quantitative manipulations and determinations. The aim of the course is to obtain skill in quantitative manipulation and a knowledge of methods which will enable the student to quickly and easily become proficient in any of the several lines of quantitative analytical Chemistry.
Prerequisite, Chemistry 5 and 6.
Three laboratory periods, both semesters.

ECONOMICS

H. C. Tilton

Note:—All courses in Economics except 1 and 2 will be accepted as major courses.

DESCRIPTION OF COURSES

1. SOCIAL ADJUSTMENT

An elementary course dealing with the problems of college and community life.
Elective for Freshmen only.
Two hours, first semester.

2. INDUSTRIAL HISTORY

A historical perspective intended as a preparation for the study of economics.
Elective for Freshmen only.
Two hours, second semester.

21-22. INTRODUCTORY SOCIOLOGY

The origin, principles and problems of society.
Freshmen are not admitted.
Three hours, both semesters

31-32. INTRODUCTORY ECONOMICS

A general course considering the basic principles of economics.
Four hours, both semesters.
Freshmen are not admitted.

122. SOCIAL ORGANIZATION

Psychological forces in the organization of society, with special reference to democratic institutions.
Prerequisite, Philosophy 101.
Three hours, second semester.

131. MONEY AND BANKING

Principles of money; recent monetary history; functions of banks; development of the United States system of banks; present problems.
Three hours, first semester.

*133. LABOR PROBLEMS

History and development of organized labor, labor problems, and labor legislation.
Three hours, first semester.

*134. INTRODUCTION TO PUBLIC FINANCE

The theory and method of taxation; management and expenditure of public funds; public debts.
Three hours, second semester.

137. BUSINESS ORGANIZATION

The course deals with the nature and history of corporations and their significance in modern life. Attention is given to the problems arising from the growth of corporations and combinations, and to various remedies proposed.
Three hours, first semester.

138. BUSINESS ADMINISTRATION

The industrial plant, location, equipment, management, marketing of products, etc.
Three hours, second semester.

140. HISTORY OF ECONOMIC THOUGHT

A review of the development of economic doctrines and their influence on political and social action.
Senior elective. Majors in Economics.
Three hours, second semester.
*Not given in 1921-22.
31 and 32 are prerequisites to all advanced courses in economics.

ENGINEERING

Herbert E. Marsh

A complete technical course in engineering is not offered at present. The following subjects are for the benefit of those who desire to complete their preparation for this profession after having obtained a broad cultural basis for the same.

1 AND 2. MECHANICAL DRAWING

Use and care of drawing instruments, free-hand and mechanical lettering, exercises in projection and simple drawing. Drawing accurately to scale plans, elevations, and sections from student's own measurements and free-hand sketches of simple machine parts.
Prerequisite, Plane Geometry.
This course may not be counted toward a major.
Three drawing periods, both semesters.

3 AND 4. TOPOGRAPHICAL DRAWING

This course is supplementary to Engineering 6, and consists of a study of the forms and practice in the execution of the conventional alphabets used in lettering topographical maps and the individual conventional signs.
Prerequisite, Mechanical Drawing.
This course may not be counted toward a major.
Sophomore course.
Three two-hour drawing periods, first semester.

5 AND 6. SURVEYING

The use, care and adjustment of the Surveyor's instruments. Field work; chain and tape surveying, transit surveys, leveling, curves, etc.
Work of second semester, applied particularly to topographical surveying and mapping.
Sophomore course.

Prerequisite, Mathematics 2.
One recitation and two field (or drawing) periods both semesters.

7. Descriptive Geometry

A study of the principles which underlie orthographic projection, keeping in mind the importance of the ability to analyze a problem into its component parts and to reason from a given set of conditions to a required set of conclusions.
Prerequisite, Engineering 1 and 2.
Four drawing periods, first semester.

8. Descriptive Geometry

Continuation of 7, including single and double curved surfaces, shades and shadows, and the elements of perspective and isometric projection.
Four drawing periods, second semester.

101 and 102. Applied Mechanics

A study of the laws of statics and dynamics and their application to the various branches of engineering.
Prerequisites, Physics 101, and Mathematics 101 and 102.
Three recitations, both semesters.

103. Mechanics of Materials

A study of mechanics of materials including elastic and ultimate strength, and elastic and ultimate deformations, cases of simple stress, theory of beams, columns, and shafts; also a study of the principles of reinforced concrete and their application in various structures.
Prerequisite, Engineering 101 and 102.
Four recitations, first semester.

104. Graphic Statics

A study of methods of representing forces graphically and the application of the same in the determination of stresses in structures.

Prerequisite, Engineering 101, 102.

Recitation two hours and one drawing period, second semester.

ENGLISH

Egbert Ray Nichols

Mary Louise Todd

The aim of the English department is three-fold: (1) to train the students in the art of self-expression or English Composition, written and oral; (2) to give the student definite knowledge of the greater writers of English literature; and (3) to enable the student to appreciate and estimate in a measure by the higher standards of criticism the value and wealth of English literature.

The work of the department has been grouped under three heads. This division of the department is the logical and natural one of (A) Courses in Composition, (B) Courses in English Literature, and (C) Courses in Public Speaking.

Twenty-four hours in addition to the hours in courses 1, 2, 51, and 52 are required of students majoring in English.

All courses in Composition and Literature numbered from 101 to 190 may be counted toward a major in English. Only four hours from courses numbered 191 to 200 may be counted toward the English major.

Courses 103, 104, 51, 52, and 112 are required of all English majors.

Students expecting to major in English should present a program of study to the head of the department before the beginning of the Junior year.

A.—COURSES IN COMPOSITION

1 AND 2. RHETORIC AND COMPOSITION

A study of composition, oral and written, with regular practice in writing and speaking.
Freshmen course. May not be counted for major.
Three hours a week, both semesters. Mr. Nichols and Miss Todd.

103 AND 104. ADVANCED COMPOSITION

A course in composition designed for those who wish to continue writing work beyond the Freshmen year. A regular schedule of writing is followed. Longer themes are required and more attention is given to criticism than in English 1 and 2. English 103 and 104 may be taken two years with full credit for each year. Required of English majors.
Sophomore-Junior course.
Three hours a week, both semesters. Mr. Nichols.

B—COURSES IN ENGLISH LITERATURE

51 AND 52. HISTORY OF ENGLISH LITERATURE

The development of English Literature from Beowulf to the present time.
Required of students majoring in English. Either semester elective.
Three hours per week, both semesters. Miss Todd.

***58.** 19TH CENTURY AMERICAN LITERATURE

A survey course in the major poets and prose writers of America with a study of representative works. Elective.

Three hours per week, second semester. Miss Todd.

109. SHAKESPEARE

(a) An intensive study of three plays of Shakespeare, including Hamlet or Othello.

(b) A reading course in Shakespeare's plays up to the year 1600. A chronological order is followed. Collateral reading on the life of Shakespeare and his time.

Sophomore-Junior course.

Three hours, first semester. Miss Todd.

110. SHAKESPEARE

(a) As in English 109.

(b) A reading course in Shakespeare's plays subsequent to the year 1600. A chronological order is followed. Thesis required.

Three hours, second semester. Miss Todd.

112. CHAUCER

A survey of the life and writings of Geoffrey Chaucer with special attention to the Canterbury Tales.

Required of English majors.

Three hours a week, second semester. Mr. Nichols.

***133.** ENGLISH PROSE OF THE EIGHTEENTH CENTURY

The reading of prose selected from the works of Defoe, Swift, Addison, Steele, Johnson, Goldsmith, and Burke.

Three hours, first semester. Miss Todd.

*141. MIDTON

A study of the life and writings of Milton, with special emphasis upon Paradise Lost.
Three hours, first semester. Miss Todd.

*151 AND 152. PROSE FICTION

The first semester is devoted to the history and development of the novel, and the second semestei to the study of the technique and theories of prose fiction. The student is required to make frequent oral reports and one written report each semester. Twelve novels from at least six different authors must be read to complete the course.
Three hours, both semesters. Mr. Nichols.

*154. THE NOVELS OF CHARLES DICKENS

A reading course with lectures upon Dickens' life and upon his methods and style. Frequent reports and a thesis are required.
Sophomore, Junior, Senior course.
Three hours, second semester. Miss Todd.

156. STEVENSON

A study of the author's representative works in romance, essay, and criticism. Lectures, collateral reading, and class discussion.
Sophomore-Junior-Senior course.
Two hours, second semester. Miss Todd.

*163. NINETEENTH CENTURY POETRY

The reading of selected poems from major poets, including Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson and Browning.
Three hours, first semester. Mr. Nichols.

165. TENNYSON

A study of the life and writings of Alfred, Lord Tennyson. Thesis required.
Three hours, first semester. Mr. Nichols.

166. BROWNING

A study of the life and writings of Robert Browning. Thesis required.
Three hours, second semester. Mr. Nichols.

167. WORDSWORTH

A study of Wordsworth's poems, including a consideration of his poetic theory and practice.
Two hours, first semester. Miss Todd.

*174. NINETEENTH CENTURY PROSE

A study of selected masterpieces with special emphasis upon the works of Lamb, DeQuincey, Macaulay, Carlyle, Arnold, and Stevenson.
Three hours, second semester. Miss Todd.

*181. MODERN DRAMA

A survey course in Modern Continental Drama with outside reading and reports, including Ibsen, Bjornson, Strindberg, Maeterlinck, Rostand, Brieux, Hauptman, Suderman, Schnitzler, Echegaray, d'Annunzio, and many others.
Three hours, first semester. Mr. Nichols.

*182. MODERN DRAMA

A survey course in Modern English, Irish, and American Drama with outside reading and reports and thesis, including Pinero, Jones, Galsworthy,

Bennett, Barker, Synge, Yeats, Gregory, Howard, Thomas, Mackaye, and many others.
Three hours, both semesters. Mr. Nichols.

183-184. MASTERPIECES OF DRAMA

A comparative literature course in drama beginning with the Greek comedies and tragedies and following the course of the drama chronologically down to Ibsen and Modern Drama.
Three hours, both semesters. Mr. Nichols.

C.—COURSES IN PUBLIC SPEAKING

(Four hours only may be counted toward an English Major from courses in Division C.)

191 AND 192. ARGUMENTATION AND DEBATE

A study of the principles of debating, with exercises in brief drawing, writing speeches, and class debates.
Elective course. Should be taken by those desiring to enter Intercollegiate Debates.
Two hours a week, both semesters. Mr. Nichols.

*193 AND 194. EXPRESSION

An elementary course in expression leading to reading, oratory and public speaking and dramatics.
Elective.
Two hours, both semesters. Mr. Nichols.
*Omitted in 1921-22.

FRENCH

Edith A. Hill

All courses except French 1 and 2 and 11 may be taken as major courses.

1 AND 2. FIRST YEAR FRENCH

Special attention to pronunciation, writing and reading. Exercises in grammar. Grammar and texts suitable to the grade of work required, will be used.
Four hours, both semesters.

3 AND 4. SECOND YEAR FRENCH

Rapid review of grammar. Considerable opportunity is given for speaking the language, as but little English is used in the class room. Plays, novels and short stories of some of the greatest modern writers will be studied during the year.
Three hours, both semesters.

5 AND 6. CONVERSATION COURSE

Facts of daily life discussed. Designed to train students to speak and write the language with some facility.
Prerequisite, 1-2.
Two hours, both semesters.

11. FRENCH

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, phonetic transcription, etc.
Prerequisite, 1.
Three hours of laboratory, one hour credit, one semester.

101 AND 102. FRENCH LITERATURE OF THE 19TH CENTURY.

A lecture and reading course. Conducted entirely in French.
Prerequisite, 1-4.
Three hours, both semesters.

*103 AND 104. FRENCH 17TH CENTURY POETRY AND PROSE

Lecture and reading course. Conducted entirely in French. The principal authors of the classical period, Corneille, Moliere, Racine, La Fontaine, Boileau, etc., will be studied.
Prerequisite, 1-4.
Three hours, both semesters.

*Omitted 1921-22.

GEOLOGY

Geo. Robertson

101. GENERAL GEOLOGY

Lectures, recitations, laboratory and field work. The study will include the salient and economic features of the science, giving a systematic and comprehensive knowledge of the most important teachings of Geology. The course will cover (a) Dynamical, (b) Structural, and (c) Historical Geology. Attention will be given to the Petrology and Crystallography of the common rocks and minerals.

Prerequisite, Botany 1 and 2 and Zoology 1 and 2.

Two lecture hours and one laboratory period of two hours, first semester.

GERMAN

Frank H. Reinsch

All courses except German 1 and 2 may be taken as major courses.

1 AND 2. FIRST YEAR GERMAN

Systematic training in simple conversation, narration and the elements of German grammar. Texts suitable for the work of the first year will be read.
Four hours, both semesters.

3 AND 4. SECOND YEAR GERMAN

Reading of Lessing, Goethe, and Schiller.
Three hours, both semesters.

5 AND 6. COMPOSITION AND CONVERSATION COURSE

A course in conversation, composition and sight reading.
Two hours, both semesters.

101 AND 102. THIRD YEAR GERMAN

The German Novel. Frytag's Soll und Haben, Sudermann's Frau Sorge, and others.
Reading and discussion.
Prerequisite, 1-4.
Three hours, both semesters.

*103 AND 104. GERMAN LITERATURE

General survey of German Literature from its beginning to the 20th Century.
Prerequisite, 1-4.
Three hours, both semesters.

*103 and 104 omitted 1920-21.

GREEK

James W. Kyle

Courses 5, 6, 7, 8, 101, 102, 105 and 106 may be counted for a major in Greek.

1 AND 2. ELEMENTARY GREEK: BALL'S ELEMENTS OF GREEK

Gospel of Luke for sight reading.
Book I. of Xenophon's Anabasis.
Four hours, both semesters.

3 AND 4. XENOPHON: ANABASIS

Books I.-IV. Composition continued. Homer: Iliad, Book I. Metrical reading.
Four hours, both semesters.

5. LYSIAS: SELECTED ORATIONS

Exercises in recomposition of the text. Analysis of style of Lysias. Lectures on the Greek orators.
Three hours, first semester.

6. HOMER: ILIAD, SELECTIONS

Study of forms from text and from Sterrett's Dialect of Homer. Metrical reading of the Greek. Lectures on the Homeric Poems as literature.
Three hours, second semester.

7. LUCIAN: SELECTED DIALOGUES

Exercises in recomposition. Required reading of other dialogues in translation. Lectures on the Greek rhetoricians.
Three hours, first semester.

8. PLATO: APOLOGY, CRITO AND PART OF THE PHAEDO

Discussion of the life and teachings of Socrates. Reading and reviews of the Gorgias, Symposium and Republic in Jowett's translation.
Three hours, second semester.

9 AND 10. NEW TESTAMENT GREEK

The four Gospels, first Epistle to the Corinthians, Epistle to the Hebrews, Epistle of James, and first Epistle of Peter will be translated from the original. Idioms of New Testament Greek will be classified and studied with a thorough review of grammar, using Robertson's Short Grammar of the N. T. and Burton's Moods and Tenses in N. T. Greek.
Prerequisite, Greek 1-4.

101. EURIPIDES: IPHIGENIA IN TAURIS; ARISTOPHANES; CLOUDS

Discussion of the plot and characters. Lectures on the Greek theater. Study of the various metres and exercises in metrical reading.
Three hours, first semester.

102. DEMOSTHENES: ORATION ON THE CROWN

Analysis of the style of Demosthenes. Supplemented by reading from Dionysius and select passages from Hyperides, Isaeus, Aeschines and Isocrates.
Three hours, second semester.

103 AND 104. GREEK LITERATURE IN ENGLISH

Lectures on style, with class work in Fowler's History of Ancient Greek Literature. Required read-

ing of three Greek authors per semester in the best translations, with critical review of each. The power to criticise independently and appreciate reasonably a work of literary art is sought in this course as well as some direct and personal acquaintance with the literature of Greece.
Three hours, both semesters.

105 and 106. Modern Greek

A Practical Method by Rangabe will be used as a guide. Part of each hour will be given to conversation in Modern Greek. A magazine published at Athens will be taken by each member of the class. Short stories by present-day writers will be read.
Three hours, both semesters.

HISTORY

A. Harvey Collins

Howland Cyrus Merrill

All Upper Division courses and History 10 will be accepted as major courses.

Note:—The six hours of History required for graduation from any department may be selected from the following groups as units: History 3 and 4; 4 and 105; History 107 and 108; History 9 and 10; History 111 and 112 or History 9 and 114.

Note:—Political Science 107 (Diplomacy) will be accepted in fulfilling the requirements for the A. B. degree with History major.

1 and 2. English History

This course is planned so as to cover the principal

features of English History to the present time. Special attention will be paid to the constitutional phases.
Three hours, both semesters. Mr. Collins.

3 AND 4. MEDIAEVAL AND MODERN EUROPE

A survey of the leading events in European History from about 476 to 1815 A. D., with special reference to the development of the great institutions both of Church and State. Text, lectures, collateral readings, preparation of maps and papers.
Sophomore course.
Three hours, both semesters. Mr. Merrill.

5 AND 6. CURRENT HISTORY

A discussion of the important topics of the day, using such periodicals as the Independent, Digest, Outlook, et al.
One hour, both semesters. Mr. Collins.

9. AMERICAN COLONIAL EXPANSION

A study of the expansion of Europe in the Americas during the sixteenth and seventeenth centuries. Attention is given to the discoveries, explorations and the founding and development of the European colonies in the Americas. The colonial policies of these nations are noted and compared.
Three hours, first semester. Mr. Collins

10. AMERICAN EXPANSION

A study of the expansion of the American people from the Atlantic seaboard along territorial, industrial and social lines. Religious institutions, manners and customs, sectional divergences and cross

currents; of the continuous influence of the American Frontier upon national and international affairs; and of the influence of the Public Land System of the United States.
Lectures with much collateral reading and preparation of papers.
Three hours, second semester. Mr. Collins.

101. HISTORY OF GREECE

A study of the civilization of the Greeks, the development of their politics, art and philosophy and their influence on the world.
Three horus, first semester. Mr. Kyle.

102. HISTORY OF ROME

The story of the city that conquered and ruled the world, the spirit that absorbed and unified and trained the world, and the men and the institutions which it produced.
A continuation of Course 101.
Three hours, second semester. Mr. Kyle.

103 AND 104. HISTORY OF MEXICO

A rapid survey of early Mexican civilization and the Colonial period; the establishment of independence and the development of government; social and economic problems; relations with the United States and recent revolutionary movements.
Open to Sophomores.
Two hours, both semesters. Mr. Collins.

105. NINETEENTH CENTURY EUROPE

Beginning with the general peace secured by the Congress of Vienna this course deals with the new

political, social and international problems that characterize the nineteenth century.
Prerequisite, History 4 or 1 and 2.
Three hours, first semester. Mr. Merrill.

106. HISTORY OF THE TWENTIETH CENTURY

A study of the pre-war Rivalry of the Nations; the struggle of the nations; features of the war; the Treaty of Versailles; the League of Nations; and the problems growing out of the reconstruction of Europe and the readjustment of international relations. Lectures and reports from the historical literature of the period.
Two hours, second semester. Mr. Collins.

107 AND 108. HISTORY OF THE UNITED STATES

Designed to show the growth of the American National Government by a study of the political, social and institutional development of the United States 1783-1922. Special emphasis will be laid on the causes of the Civil War, Reconstruction, and the institutional and political development since 1875. Lectures, reports, investigations and comparisons.
Three hours, both semesters. Mr. Collins.

111 AND 112. HISTORY OF THE PACIFIC SLOPE

A study of the discoveries and explorations of the western coast of North America; of the founding and development of the Franciscan Missions, of the Spanish and Mexican regimes in California, of the acquisition of this region by the United States and the development of California and the North West. Lectures from syllabus together with investigations and reports.
Two hours, both semesters. Mr. Collins.

113. THE REFORMATION

A detail study of the Protestant Reformation. An attempt will be made to discover the causes leading to the movement and the immediate and ultimate results, as well as to trace the current of events.
Prerequisite, History 1 or 3.
Three hours, first semester. Mr. Merrill.

114. HISTORY OF LATIN AMERICA

Beginning with a survey of the importance of the Caribbean region and carrying the study thru the Spanish Colonial System, the Spanish American wars for independence and the social, institutional and industrial development of all Latin America. Special attention will be given to the inter-relationships of the Americas. Library readings and reports will be assigned on the social and cultural character of the Spanish American civilization.
Recommended for students of Spanish.
Three hours, second semester. Mr. Collins.

115a AND 115b. INTRODUCTORY SEMINAR

A seminar and intensive study of some selected topic or movement.
Open to student who have nine or more hours of college history credit.
One hour, both semesters. Mr. Collins.

HISTORY OF ART AND HISTORY OF MUSIC

See Description of Courses under Fine Arts College.

HYGIENE

A study of hygiene in its personal and social aspects—

stressing the underlying principles which promote and conserve the life forces, and discussing the meaning and importance of "the art of right living" in relation to the individual and life in general. This is supplemented with any necessary explanation of the structure and functions of the human body which may serve to strengthen the plea for right living.

Lectures, readings and recitations.

Required of all Freshmen.

One hour, both semesters.

LATIN

James W. Kyle

Courses 5 to 8 and 101 to 106, inclusive, may be counted for a major in Latin.

1 AND 2. CICERO: ORATIONS AND LETTERS

Composition based on the text. Much reading in Latin to acquire expression. Memorizing of select passages.
Three hours, both semesters.

3 AND 4. VERGIL: AENEID, BOOKS I.-VI.

Metrical reading of the whole text. Discussion of syntax and figures of Vergil. Reading and reports from Sellar's "Vergil." Memorizing of select passages.

Three hours, both semesters.

The above courses are intended for students who entered with only two years of Latin.

5. CICERO: DE SENECTUTE AND DE AMICITIA

Review of forms and syntax. Discussion of the life and thought of Cicero and the sources of his philosophy.
Three hours, first semester.

6. HORACE: SELECTIONS FROM ODES, SATIRES AND EPISTLES

Will be read metrically to secure ease and fluency in the Latin. Parallel passages from Greek and English poets. Discussion of the spirit and art of Horace.
Three hours, second semester.

7. LIVY: SELECTIONS FROM BOOKS I.-X.

Lectures on the history of Rome. Discussion of the style and rhetorical methods of Livy.
Three hours, first semester.

8. TACITUS: HISTORIES, BOOKS I. AND II.

Systematic study of the style of Tacitus. Comparison with Livy and Thucydides. Lectures on the life and times of Tacitus.
Three hours, second semester.

9 AND 10. LATIN COMPOSITION

Illustrating the syntax and diction of several Latin authors. Designed especially for those who are preparing to teach Latin.
Two hours, both semesters.

101. PLAUTUS: CAPTIVI, TRINUMMUS AND RUDENS

Metrical reading. Lectures on Latin Comedy and the Greek Theatre.
Three hours, first semester.

102. LUCRETIUS; CATULLUS; TIBULLUS; SELECTIONS
Metrical reading, lectures and critical essays on the Latin poets.
Three hours, second semester.

*103. SENECA: SELECTIONS FROM ESSAYS AND LETTERS
Discussion of philosophy and ethics at Rome in the early Empire. The style of Seneca compared with Cicero and with Tacitus.
Three hours, first semester.

*104. QUINTILIAN: INSTITUTIONS, BOOKS X. AND XII.
Discussion of literary criticism among the Romans, and a rapid survey of the field of Latin literature.
Three hours, second semester.

105. CICERO—THE TUSCULAN DISPUTATIONS
With selections from Lucretius. A study of the various schools of Greek philosophy and their influence on the thought and feeling of Rome in the latter days of the Republic.
Three hours, first semester.

106. PETRONIUS AND MARTIAL
Selections from the Cena Trimalchionis and from the Epigrams of Martial.
Discussion of the social life and customs of the Romans, with special assignments and reports.
Three hours, second semester.

*Omitted 1921-22.

MATHEMATICS

Emma Kirtland Whiton

Courses 1, 2, 3 may not be counted toward a major in Mathematics and not more than one of the courses 5 and 6 may be so counted.

1. Algebra

This course is substantially equivalent to intermediate Algebra, frequently offered for matriculation. It should be taken by all Freshmen who do not offer this course for entrance.
Three hours, first semester.

2. Trigonometry

Analytic Trigonometry, the proof and applications of the fundamental relations among the functions of angles. Practical Trigonometry, the solution of the plane triangle, measurements of heights and distances.
Prerequisite, Mathematics 1.
Three hours, second semester.

3. Solid Geometry

The fundamental propositions of Solid and Spherical Geometry with many original exercises applied especially to the mensuration of solids.
Three hours, first semester.

5. Elements of Analytic Geometry

A study of the point, the line and the circle, with some of the more important and elementary theorems on the conic sections.

Prerequisite, Mathematics 1 and 2.
Three hours, first semester.

6. College Algebra

Rapid review of the theory of quadratic equations, permutations and combinations, series, logarithms, determinants and elementary theory of equations.
Prerequisite, Mathematics 1 and 2.
Three hours, second semester.

101 and 102. Differential and Integral Calculus

Fundamental formulae and processes of differentiation with an insight into the powerful factor which this subject is in modern scientific research, and a study of the processes of integration and their application to physical and mechanical problems.
Prerequisite, Mathematics 1, 2, 5.
Three hours, both semesters.

*103. Theory of Equations

Equations of higher degrees, symmetric functions of roots, determinants of higher orders.
Prerequisite, Mathematics 1, 2, 5, 6, 101.
Three hours, first semester.

*104. Elementary Projective Geometry

Fundamental concepts; anharmonic ratio; projective pencils and ranges. Designed especially for those who purpose to teach mathematics.
Prerequisite, Mathematics 1, 2, and 5.
Three hours, second semester.

105 and 106. Advanced Analytical Geometry

A more detailed study of the properties of the conic

section; some insight into the study of higher plane curves, including introduction to modern methods in analytic geometry.
Prerequisite, Mathematics 1, 2, 5, 6, 101, 102.
Three hours, both semesters.

*108. Analytical Geometry of Three Dimensions

Analytic study of the plane and straight line in space, surfaces of the second degree, introduction to theory of surfaces in general.
Prerequisite, Mathematics 1, 6, 101.
Three hours, second semester.

109. and 110. Advanced Calculus and Differential Equations

A study of many of the important applications of the calculus with the solution of differential equations and their application in the solution of physical problems.
Prerequisite, Mathematics 1-6, 101, 102.
Three hours, both semesters.

*Omitted 1921-22.

MUSIC CREDIT FOR A. B. DEGREE

Credit toward the A. B. degree will be given in the College of Liberal Arts for music work, subject to the following conditions:

1. A Freshman may receive credit for not more than four hours per year.
2. A Sophomore may receive credit for not more than six hours per year.

3. Not more than 24 hours of music may be counted toward the 126 hours required for the A. B. degree.
4. Of the 24 hours of music work allowed toward the A. B. degree not more than 12 may be in applied music.
5. No credit for applied music toward the A. B. degree except when taken after or contemporaneous with Musical Appreciation courses 5 and 6.

PHILOSOPHY AND EDUCATION

Herbert E. Wise

All courses in this department excepting 1 and 2 will be accepted as majors.

1. Logic

Historic stages in the development of Logic; principles of deduction and induction; detection of fallacies; training in discriminative and consecutive thinking.
Three hours, first semester.

2. Introduction to Philosophy

This course affords a survey of the field of philosophic enquiry, both in its historical and interpretive aspects
Three hours, second semester.

101. General Psychology

An introduction to the fundamental principles of Psychology. Human behaviour is studied with re-

spect to its affective, discursive, and volitional processes.
Text, collateral and reports.
Three hours, first semester.

102. Applied Psychology

Interpretation of emotion and temperament in literature; suggestion and therapeutics; vocational and religious psychology. Special consideration is given to psychology of thinking.
Three hours, second semester.
Prerequisite 101.

103. History of Philosophy

The course traces the development of philosophy from the Greek interpretation of the universe to the scientific explanation of the modern period. Careful attention is given to Plato and Aristotle, to the period of Scholasticism and to the independent thinkers from Descartes to Hume.
Three hours, both semesters.

104. History of Philosophy (Continued.)

Attention is given to the rise and development of the Kantian system; to Kant's influence upon subsequent thought; to Post-Kantian Idealism in Europe and America, chiefly with reference to Hegelianism and its tendencies. Thesis required.
Three hours, second semester.

105. Ethics

Historical survey of the different ethical theories. The world of Values. Ethical interpretaion of

Freedom. Morality and Religion. Text, collateral and reports. Thesis required.
Three hours, first semester.

106. THEISM

Divine and human personality; arguments for the Divine existence; principal Anti-theistic theories; ethical and religious teaching of Christianity; relation of Christianity to other religions.
Three hours, second semester.

109. PHILOSOPHY OF RELIGION

Nature and development of religion; characteristics of developed religion; religious knowledge and its validity; the ultimate truth of religion.
Three hours, first semester.

*116. (a) PHILOSOPHY OF EDUCATION

This course emphasizes the distinguishing aspects of the educative process, comprising the biological, psychological, sociological, and religious. Text is supplemented by special investigations.
Prerequisite, Philosophy 101.
Three hours, second semester.

* (b) HISTORY OF EDUCATION

The functional aspects of the history of education are traced through Ancient, Mediaeval and Modern periods, as shown in individual and social aims. Text, lectures and reports.
Prerequisite, Philosophy 101.
Three hours, second semester.

*118. PRINCIPLES OF SECONDARY EDUCATION

Physical and Mental traits of the pupil.
Relation to both Elementary and Higher Education.
Program of studies. Organization.
Prerequisite, Philosophy 101.
Three hours, second semester.

Note 1.—116 (a) and (b) are alternate. (a) not given in 1921-22.

Note 2. 118 given in 1921-22, not in 1922-23.

PHYSICAL EDUCATION

Ashel Cunningham

Eda M. Falkland

The aim is to promote the physical welfare of the individual through stimulating the functioning of the organs of the body and correcting all possible defects—especially those relating to posture; to develop the mental faculties such as attention, judgment, discrimination, self-control, etc.; and to assist in building character by the creation of high ideals.

1 AND 2. ELEMENTARY COURSE FOR FRESHMEN

a. Practical floor work.
Two hours, both semesters.
b. Outdoor sports elected by students but subject to the approval of the Physical Director.
Two hours, both semesters.
*Required of all Freshmen.
One hour credit each semester.

3 and 4. Advanced Course for Sophomores

a. Practical floor work.
Two hours, both semesters.
b. Outdoor sports elected by student but subject to the approval of the Physical Director.
Two hours, both semesters.
*Required of all Sophomores.
One hour credit each semester.

5 and 6. Corrective Gymnastics

All Freshmen and Sophomores who are unable to take the regular gymnasium work on account of physical defects are required to substitute a course in special corrective exercises adapted to the individual.

Physical examinations and measurements are taken at the beginning and end of the Freshmen and Sophomore years to determine the degree of physical efficiency. Accurate records are kept. Follow up work is pursued with the view to assisting individuals in acquiring and maintaining physical fitness.

The University of Redlands recognizes the value of athletics in the college curriculum. Athletics is the vitalizing force of "College Spirit," and hence of value to college students in general. Athletics, when properly coached and controlled, is of great value to the participant for not only is the body developed, the eye made keener and the judgment quickened, but, if allowed so to do, the broader and finer qualities of mind and of soul, even, find expression and receive impulses and strength. Therefore athletics occupies the usual important place in the schedule. These sports include football, basketball, baseball, and track.

Dress requirements for women students in Physical Education:
All women students are required to have black bloomers, white middy blouses and black gymnasium shoes.

*Men engaging in athletics are, upon recommendation of the Coach excused from these courses during their period of participation in athletics.

PHYSICS

Herbert E. Marsh
E. B. Van Osdel

1 AND 2. MECHANICS, MOLECULAR PHYSICS, HEAT, SOUND, LIGHT, MAGNETISM AND ELECTRICITY

This course is designed for those who have not had a requisite amount of work in this subject to undertake the more advanced courses 101 and 102, and also to meet the requirements of courses involving the essentials of this branch of science. May be pursued without previous work in Physics.
Prerequisite Math. 1.
Recitations and lectures two hours and two laboratory periods, both semesters.

101 AND 102. MECHANICS, MOLECULAR PHYSICS, HEAT, SOUND, LIGHT, MAGNETISM AND ELECTRICITY

Although the grasping of principles and not skill in manipulation is strongly emphasized, still the fixing power of laboratory application is recognized. The purpose is to give the student an insight into the real significance of physical things, by putting him in touch with the methods and instruments of

modern physical investigation and by carrying him through the process of reasoning by which the present science of physics has been developed.
Prerequisite, one year of entrance Physics and Mathematics 2 and 6.
Recitation and lectures three hours and two laboratory periods, both semesters.

103 AND 104. ELECTRICAL MEASUREMENTS
Various methods for exact determination of voltage, resistance, and current; also study and calibration of various types of galvanometers, voltmeters, ammeters, condensers, etc.
One recitation and two laboratory periods, both semesters.

POLITICAL SCIENCE

H. C. Merrill

Note:—All courses except 1 and 2 will be accepted as major courses.

1. UNITED STATES GOVERNMENT AND POLITICS
A study of the American federal system; the establishment of the Constitution; the development of national institutions; the powers of the federal government and their exercise.
Three hours, first semester.

2. STATE AND LOCAL GOVERNMENT IN THE UNITED STATES
Relation of the states to the central government; state constitutions; the organization and government

of local units; special reference to California.
Three hours, second semester

101. GENERAL POLITICAL SCIENCE

An introductory survey of the general field of political science, viewing the state in the light of fundamental principles. The course will serve as a background for more specialized work in the department.
Three hours, first semester.

102. INTERNATIONAL LAW

A study of the general principles governing nations in their intercourse with each other, such as rules of peace and war, diplomatic usage and methods of arbitration. Leading cases, reports on special topics.
Three hours, second semester.

103. GROWTH OF THE ENGLISH CONSTITUTION

A study of government in England from the Saxon period to the present time; the development of political parties; comparison with the federal system of the United States.
Three hours, first semester.

104. GOVERNMENTS OF CONTINENTAL EUROPE

A comparative study of the political institutions of the leading states of Continental Europe.
Three hours, second semester.

106. MUNICIPAL GOVERNMENT

Mainly a study of the modern American city will be made; but comparisons will be made with the

government and experiences of European cities.
Three hours, second semester.

*107. AMERICAN DIPLOMACY
A historical survey of the international relations of the United States; a study of particular diplomatic problems.
Seminar. Two hours, first semester.

*108. HISTORY OF POLITICAL THOUGHT
A study of political ideals from ancient and modern times, emphasizing the evolution of democracy.
Seminar. Two hours, second semester.

*Omitted 1921-22.

SPANISH

E. A. Hill
Frank H. Reinsch

All courses except Spanish 1, 2 and 11 may be taken as major courses.

1 AND 2. FIRST YEAR SPANISH
Ready familiarity with the essentials of Spanish grammar, and systematic training in pronunciation, conversation and reading.
Four hours, both semesters.

3 AND 4. SECOND YEAR SPANISH
Selected texts from modern Spanish authors.
Three hours, both semesters.

5 AND 6. CONVERSATION AND COMPOSITION COURSE
A course in conversation and composition based on

current events, history, and composition. Reports in Spanish by members of the class.
Prerequisite, 1-4 (unless registered simultaneously in 3 and 4.)
Two hours, both semesters.

11. SPANISH

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, etc.
Prerequisite, 1.
Three hours of laboratory. One hour credit, one semester.

ZOOLOGY

George Robertson

Courses 1 and 2 will not be accepted as majors.

1 AND 2. GENERAL ZOOLOGY

A study of invertebrate animal life, the structure, development, classification and distribution. The study of insects will be specifically considered.
Especial attention is given to human physiology.
Two lecture hours and two laboratory periods both semesters.

*105. ADVANCED INVERTEBRATE ZOOLOGY

Lectures, readings, laboratory work dealing with local invertebrate Zoology, their morphology, habits, distributions, life histories. Entomology will receive special attention.
Prerequisite courses 3 and 4.
Two lecture hours and one laboratory period, first semester.

*106. ADVANCED GENERAL VERTEBRATE ZOOLOGY

The course will embrace a comparative anatomy, a study of vertebrate animal structure and physiology, development, habits, variation and distribution. Dissection of selected type specimens, and special courses of reading with assigned papers will be required.

Prerequisite course 105.

Two lecture hours and one laboratory period, second semester.

107. HEREDITY AND EVOLUTION AND GENETICS

The course will deal with the facts of heredity, the cellular basis of heredity, the Mendelian discovery and its bearing on heredity, eugenics and problems of human life.

Two lecture hours and one laboratory period of two hours, first semester.

108. ENTOMOLOGY

Insects and their development and history, their relation to insects in general, to man, to other animals, to plants and especially to the farmer as his friends and enemies.

Two lecture hours and one laboratory period, second semester.

*109 AND 110. PHYSIOLOGY AND HYGIENE

The course embraces the study of animal tissues, epithelial, muscular, connective, nervous and their functions. The physiology and hygiene of the tissues, organs of respiration, digestion, nutrition, reproduction and of the nervous system will receive special attention.

Prerequisites Biology 3, 4.
Three hours, both semesters.

112. EMBRYOLOGY

The fundamental facts of animal development, reproduction, and the genesis of organs of the higher animals.
Two lectures and one laboratory period, second semester.

***114.** PALAEONTOLOGY OF ANIMAL FORMS

The history of the rise of animal forms of life as illustrated by extinct species leading up to the present forms of life.
Three hours per week, two lectures and one laboratory period, second semester.

*Zoology 105, 106, 109, 110, 114 will not be given in 1921-22.

Schedule of Recitations

FIRST SEMESTER

7:45 O'CLOCK

Botany 101			W	Th	F
Economics 31	M	T			F
English 1, Section 1 (T)	M		W	Th	
English 103			W	Th	F
History 105		T		Th	F
Hygiene 1, Women Section 1		T			
Hygiene 1, Women Section 2				Th	
Hygiene 1, Men		T			
Latin 1	M		W		F
Mathematics 1, Section 1			W	Th	F
Philosophy 105		T	W	Th	
Physics 1				Th	F
Physics 103				Th	F
Spanish 1, Section 1	M		W	Th	F

8:45 O'CLOCK

Botany 101	M		W	Th	F
Chemistry 1	M	T	W		F
Chemistry 7				Th	
Economics 131		T	W	Th	
English 1, Section 2 (T)		T	W		F
English 165	M	T	W		
French 1, Section 1	M	T	W		F
German 1	M	T	W		F
History 1	M		W		F
History of Art 1		T			F
Latin 3		T	W	Th	
Philosophy 1	M			Th	F
Physics 1		T	W	Th	F
Physics 101	M	T	W	Th	F
Physics 103	M			Th	F
Political Science 101	M			Th	F
Zoology 107	M		W	Th	F

9:45 O'CLOCK

Botany 1, Section 1		T	W		
Botany 103				Th	F
Chemistry 1	M	T			
Chemistry 7			W	Th	
Economics 1		T	W		
Economics 21	M			Th	F
English 1, Section 3 (N)	M			Th	F
English 109	M		W		F
French 3	M		W		F
French 5		T		Th	
German 3	M		W		F
German 5		T		Th	
Greek 3		T		Th	F
Harmony 1				Th	F
History 111				Th	F
Mathematics 5	M			Th	F
Philosophy 101	M			Th	F
Physics 101		T	W		
Political Science 1	M	T	W		
Zoology 1, Section 1				Th	F
Zoology 107	M		W		

10:45 O'CLOCK

Botany 1, Section 1		T	W		
Botany 103	M			Th	F
Chemistry 3				Th	F
Chemistry 7	M	T	W		
Economics 133	M	T			F
Engineering 101	M	T		Th	
English 1, Section 4 (N)			W	Th	F
English 133	M	T	W		
Harmony 3			W	Th	
History 107	M	T	W		
Latin 5	M		W		F
Mathematics 3	M	T	W		
Mathematics 101	M			Th	F
Philosophy 103	M	T	W		
Political Science 103			W	Th	F
Spanish 5	M	T			
Zoology 1, Section 1.		T	W	Th	F

SCHEDULE OF RECITATIONS

1:15 O'CLOCK

Botany 1, Section 2		T	W	Th	F
Chemistry 3	M	T			
Chemistry 5		T		Th	F
Chemistry 101	M	T	W	Th	
Chemistry 103	M	T			
Engineering 1				Th	F
Engineering 3				Th	F
Engineering 5	M	T	W		
Engineering 7				Th	F
English 167		T		Th	F
English 183	M	T	W		
French 101	M	T		Th	
Geology 1	M	T	W		
History 3	M	T	W		
History 9	M	T	W		
History 101	M			Th	F
History of Art 3		T			F
History of Music 1			W		F
Mathematics 105	M	T	W		
Philosophy 109		T		Th	F
Spanish 3		T	W	Th	
Zoology 1, Section 2				Th	F

2:15 O'CLOCK

Bible 1		T			F
Botany 1, Section 2		T	W		
Chemistry 3	M	T			
Chemistry 5		T		Th	F
Chemistry 101	M	T			
Chemistry 103	M	T	W	Th	
Economics 137		T	W	Th	
Engineering 1			W	Th	F
Engineering 3			W	Th	F
Engineering 5	M	T			
Engineering 7			W	Th	F
English 51		T		Th	F
English 191		T			
French 1, Section 2	M	T		Th	F
Geology 1	M				
Greek 1	M	T	W	Th	
History 103		T		Th	
History 117	M				
Mathematics 1, Section 2	M	T	W		
Spanish 1, Section 2		T	W	Th	F
Zoology 1, Section 2				Th	F

3:15 O'CLOCK

Chemistry 3	M	T			
Chemistry 5		T		Th	F
Chemistry 101	M	T			
Chemistry 103	M	T			
Engineering 1			W		
Engineering 3			W		
Engineering 7			W	Th	F
English 191		T			
History 5			W		

SECOND SEMESTER

7:45 O'CLOCK

Botany 102				Th	F
Economics 32	M	T	W		F
English 2, Section 1 (T)	M		W	Th	
English 104			W	Th	F
Hygiene 2, Women Section 1		T			
Hygiene 2, Women Section 2				Th	
Hygiene 2, Men		T			
Latin 2	M		W		F
Mathematics 2, Section 1			W	Th	F
Philosophy 106		T	W	Th	
Philosophy 118	M				F
Physics 2				Th	F
Physics 104				Th	F
Political Science 106		T		Th	F
Spanish 2, Section 1	M		W	Th	F

8:45 O'CLOCK

Botany 102	M			Th	F
Chemistry 2	M	T	W		F
Chemistry 8				Th	
Economics 122		T	W	Th	
English 2, Section 2 (T)		T	W		F
English 166	M	T	W		
French 2, Section 1	M	T	W		F
German 2	M	T	W		F
History 2	M		W		F
History of Art 2		T			F
Latin 4		T	W	Th	
Philosophy 2	M			Th	F
Philosophy 118			W		
Physics 2		T	W	Th	F
Physics 102	M	T	W	Th	F
Physics 104	M			Th	F
Political Science 102	M			Th	F
Zoology 108	M		W	Th	F

SCHEDULE OF RECITATIONS

9:45 O'CLOCK

Botany 2, Section 1		T	W		
Botany 104				Th	F
Chemistry 2	M	T			
Chemistry 8			W	Th	
Economics 2		T	W		
Economics 22	M			Th	F
English 2, Section 3 (N)	M			Th	F
English 154	M		W		F
French 4	M		W		F
French 6		T		Th	
German 4	M		W		F
German 6		T		Th	
Greek 4		T		Th	F
Harmony 2				Th	F
History 112				Th	F
History 114	M	T	W		
Mathematics 6	M			Th	F
Philosophy 102	M			Th	F
Physics 102		T	W		
Political Science 2	M	T	W		
Zoology 2, Section 1				Th	F
Zoology 108	M		W		

10:45 O'CLOCK

Astronomy 2	M	T	W		
Botany 2, Section 1		T	W		
Botany 104	M			Th	F
Chemistry 4				Th	F
Chemistry 8	M	T	W		
Engineering 102	M	T		Th	
English 2, Section 4 (N)			W	Th	F
English 156	M	T	W		
Harmony 4			W	Th	
History 108	M	T	W		
Latin 6	M		W		F
Mathematics 102	M			Th	F
Philosophy 104	M	T	W		
Political Science 104			W	Th	F
Spanish 6	M	T			
Zoology 2, Section 1		T	W	Th	F

1:15 O'CLOCK

Botany 2, Section 2		T	W		
Chemistry 4	M	T			
Chemistry 6		T		Th	F
Chemistry 102	M	T	W	Th	
Chemistry 104	M	T			
Engineering 2				Th	F
Engineering 6	M	T	W		
Engineering 8				Th	F
English 174		T		Th	F
English 184	M	T	W		
French 102	M	T		Th	
History 4	M	T	W		
History 10	M	T	W		
History 102	M			Th	F
History of Art 4		T			F
History of Music 2			W		F
Mathematics 106	M	T	W		
Philosophy 116		T		Th	F
Spanish 4		T	W	Th	
Zoology 2, Section 2				Th	F
Zoology 112	M	T	W		

2:15 O'CLOCK

Bible 2		T			F
Botany 2, Section 2		T	W		
Chemistry 4	M	T			
Chemistry 6		T		Th	F
Chemistry 102	M	T			
Chemistry 104	M	T	W	Th	
Economics 140		T	W	Th	
Engineering 2			W	Th	F
Engineering 6	M	T			
Engineering 8			W	Th	F
English 52		T		Th	F
English 192		T			
French 2, Section 2	M	T		Th	F
Greek 2	M	T	W	Th	
History 104		T		Th	
History 106		T		Th	
History 118			W		
Mathematics 2, Section 2	M	T	W		
Spanish 2, Section 2		T	W	Th	F
Zoology 2, Section 2				Th	F
Zoology 112	M				

3:15 O'CLOCK

Chemistry 4	M	T			
Chemistry 6		T		Th	F
Chemistry 102	M	T			
Chemistry 104	M	T			
Engineering 2			W		
Engineering 8			W	Th	F
English 192		T			
History 6			W		

College of Fine Arts

DEPARTMENT OF MUSIC AND ART

GENERAL INFORMATION

In accordance with the plan followed in connection with the other departments of the University, provisions have been made for the most thoro and advanced work in the Departments of Music and Art.

The line of work in the University course in Music, conferring the degree of Bachelor of Music, corresponds with that of some of the European Universities.

Preparatory, or Elementary work has also been provided to accommodate those who have not the proper number of entrance requirements for registration in the College work in Music. Saturday classes for children and young people in both Piano and Art provide a valuable opportunity for the cultivation of talent in the early years under the guidance of competent instructors.

Realizing the extent to which superior musical efficiency is attainable only in conjunction with the highest cultural development, stress is laid upon this phase of the students' growth; and special attention is directed to such courses in the other departments of the University as will prove of value in this respect to Music and Art students.

Classes in the Department of Music will be organized at the beginning of the college year, as indicated in the Calendar.

Special lessons may be begun at any time.

Piano practice may be arranged for at the Fine Arts Building.

WOMEN'S GLEE CLUB

The Philomela Chorus (Woman's Glee Club) has achieved an enviable reputation for musicianship by participating in such artist programs as that of the Zoellner Quartet and the convention of the State Federation of Music Clubs. Besides a regular concert trip in the spring the club will give a number of concerts during the school year. There will be at least one substitute for each part who will be allowed to practice with the club, and to take part in home concerts and all student affairs as a member of the club but who will not take the spring trip.

MEN'S GLEE CLUB

The Men's Glee Club has been growing in favor with audiences in all parts of California.

While the club strives to maintain a college spirit in all its concerts, the standard of the music rendered has gradually been raised until its programs are looked upon as possessing real musical and artistic merit. The choice of the club by the Santa Fe Railroad for an eastern trip over all other Pacific Coast organizations is an indication that they are deserving of the name of "The Peppiest Club in America."

For particulars and terms, address College of Fine Arts, University of Redlands, Redlands, California.

DEPARTMENTS, DEGREES AND REQUIREMENTS

DEPARTMENTS

The College of Fine Arts is made up of the following Departments:

(1) Music. (2) Drawing and Painting.

DEGREES AND CERTIFICATES

A Diploma conferring the degree of Bachelor of Music will be awarded to those who complete the required courses in the Department of Music.

A Special Diploma conferring the degree of Bachelor of Music will be awarded to those who complete the required courses with high standing in all subjects as well as in public performance.

REQUIREMENTS FOR ADMISSION

There are two methods of admission to the College of Fine Arts, (1) by Examination, (2) by Certificate.

By Certificate:—Students will be admitted without examination on certificates from accredited High Schools or other preparatory schools, provided that the course completed in High School shall include at least twelve units in subjects usually designated as solids.

By Examination:—All students who cannot present certificates from accredited schools will be examined in the subjects required for entrance.

Students who do not present Physics for entrance will be required to pursue that subject through at least the discussion of Sound.

In Piano and Organ—Applicants are required, in addition to the above, to pass an examination embracing the following or their equivalent:

1. An exercise. 2. Selections from Bach. 3. Sonata—Classical School.

In Voice and Violin:—Applicants for the regular course in Voice, or Violin, must be able to play Piano accompaniments of moderate difficulty. Any deficiencies in this respect must be made up before graduation.

Advanced Standing:—Students who wish college credit for music done elsewhere must present satisfactory credentials from other institutions of collegiate rank. Those who cannot do so will be required to take at least one semester's work in the Department of Music; if this is found satisfactory advanced credit may then be given upon recommendation of the department and vote of the faculty.

SPECIAL STUDENTS IN MUSIC

Students need not be deterred from seeking to enter the College of Fine Arts of the University because they can not satisfy all the requirements for full admission to that school. Those requirements are for persons who are candidates for a degree in music. All persons who desire to pursue a special line of work, without conforming to the requirements for entrance, or following a prescribed course, may apply for admission to the College of Fine Arts as special students. The admission of such person is under the control of the Department in which he wishes to register.

REQUIREMENTS FOR GRADUATION

No student will be permitted to graduate from the Department of Music, College of Fine Arts, who has not credit for 126 hours and 126 credit points, and who has not taken at least one year of regular work at the University.

Students taking instrument work in music are required to give a definite amount of time to practice each day for each lesson taken per week. This is considered as laboratory work. One lesson per week with the required practice entitles the student to one hour of credit. Two lessons per week gives three hours credit.

Students taking Voice are required to practice from one-half to one hour per day, according to the grade of the work, for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives the student one hour of college credit toward the 126 required for graduation.

The required work leading to the different degrees is as follows:

BACHELOR OF MUSIC IN ORGAN

Organ	12
Piano	12
History of Music	4
Theory	22
Sight Singing and Ear Training	4
English	6
Modern Languages	18
History	6
Sociology	3
Psychology	3
Hygiene	2
Physical Education	4
History of Art	4
Voice	4
Electives	22
	126

BACHELOR OF MUSIC IN PIANO

Piano	24
History of Music	4

Theory	22
Sight Singing and Ear Training	4
English	6
Modern Languages	18
History	6
Sociology	3
Psychology	3
History of Art	4
Voice	2
One additional Instrument or Voice	6
Hygiene	2
Physical Education	4
Electives	18
	126

BACHELOR OF MUSIC IN VIOLIN

Violin	24
Piano	12
History of Music	4
Theory	22
Sight Singing and Ear Training	4
English	6
Modern Languages	18
History	6
Sociology	3
Psychology	3
History of Art	4
Hygiene	2
Physical Education	4
Electives	14
	126

BACHELOR OF MUSIC IN VOICE

Voice	16
Piano	12
History of Music	4
Theory	22
Sight Singing and Ear Training	4
English	6
Modern Language	18
History	6
Sociology	3
Psychology	3
History of Art	4
Hygiene	2
Physical Education	4
Electives	22
	126

Note—For description of required Liberal Arts courses see Description of Courses, College of Liberal Arts.

CONCERTS AND RECITALS

Concerts are frequently given in Recital Hall, by the Faculty and advanced students.

Concert courses which are arranged for at special rates by the Spinet Club of Redlands, afford Students an opportunity to hear many noted musicians.

Recitals are given semi-monthly by the students of the College of Fine Arts at which works studied in the class room are performed before audiences of fellow students and their friends. All Fine Arts students are required to attend these concerts and recitals, and to take part in programs at least twice a year and to present, each semester, a record of attendance. These semipublic appearances are of great assistance in enabling the student to acquire the ease and self-possession so essential to a successful public appearance.

At the close of the College year, during Commencement Week, the Anniversary Recital of the College of Fine Arts, Department of Music is held at which the students doing the best work in performance at the above-mentioned recitals are heard.

ART

Students for the Art Department will be admitted at any time, but not for less than one semester except by special arrangement with the Instructor.

Instruction in all Art Classes is individual. Advancement of each student depends upon the degree of proficiency attained.

ADDITIONAL REQUIREMENTS

ARTISTS' COURSE—COLLEGIATE COURSE

These courses are identical in outline, but students in the Artists' courses are expected to do a larger amount of work, to maintain the highest grade in all musical subjects, and give a graduating recital. This is not required in the collegiate course, which is intended for those who wish to fit themselves for teachers or take music for personal culture rather than to become public performers. After the second year students are graded in the two courses according to their standing.

Students who are backward in technical development at the end of the Sophomore year must make up the deficiency by special work in Piano before they receive Junior standing.

FEES

Matriculation fee, payable once, at time of first registration	$5.00
Registration fee, per semester	$2.50
Graduation fee	$5.00

TUITION FEES, PER SEMESTER, SIXTEEN WEEKS.

For students who are doing regular work in either the Fine Arts or the Liberal Arts College:

Voice, one period per week	$45.00
Voice, two periods per week	90.00
Piano, one period per week, with Head of Dept.	45.00
Piano, two periods per week	90.00
Piano, one period per week, with Associate	30.00
Piano, two periods per week	60.00
Piano, one period per week, with Instructor	20.00
Piano, two periods per week	40.00
Piano, Saturday class for young people	12.00
Organ, one period per week	30.00
Organ, two periods per week	60.00
Violin, one period per week	45.00
Violin, two periods per week	90.00

For students who are not doing regular work:

Voice, one period per week	$48.00
Voice, two periods per week	96.00
Piano, one period per week, with Head of Dept.	48.00

Piano, two periods per week	96.00
Piano, one period per week, with Associate	32.00
Piano, two periods per week	64.00
Piano, one period per week, with Instructor	22.00
Piano, two periods per week	44.00
Organ, one period per week	32.00
Organ, two periods per week	64.00
Violin, one period per week	48.00
Drawing and Painting, five hours per week	$50.00
Drawing and Painting, two hours per week	20.00

The following charges for practice piano for the semester will be made:

Two hours or less per day	$5.00
Three hours per day	6.50
Four hours per day	7.50

The tuition fees for other courses in the Fine Arts College are the same as those in the Liberal Arts College. For a statement of these fees, see "Expenses," Liberal Arts College.

Description of Courses

ART

Kate Watkins, Head of Art Department

Complete course in the following:
Drawing.
Modelling in clay.
Painting in oil and water color.
Working from the cast, still life, and model.
Composition and design.
Out-door sketching.

The following course is designed for those who wish to prepare themselves for teachers of Art. A certificate of proficiency will be awarded for the satisfactory completion of this course which is open to graduates of recognized High Schools:

Studio work	18 hours
Art History	8 hours
English	6 hours
Psychology	3 hours
Ethics	3 hours
Modern Languages	14 hours
Biblical Studies	2 hours
Electives	11 hours
Total	65 hours

STUDIO WORK

House planning and interior decoration.
Two hours, both semesters, with one hour of college credit.
Charcoal drawing from cast and still life.
Pen and ink, and pencil drawing.
Modelling in clay.
Painting in oil and water color, from still life and model.
Outdoor sketching.
Composition and design.
Wood block designing.
Interior decoration.
Painting from life.
Artistic anatomy—Perspective.

HISTORY OF ART

1. Ancient and Mediaeval Architecture and Sculpture.
   Two hours, first semester.
2. Renaissance and Modern Architecture and Sculpture. Continuation of Course I.
   Two hours, second semester.
3. Painting, Early Painting and Renaissance Painting.
   Two hours, first semester.
4. Painting, Modern. Continuation of Course 3.
   Two hours, second semester.
   Lecture courses, supplemented by collateral reading and picture study.

HISTORY OF MUSIC

Flora C. Cook

101 AND 102. HISTORY OF MUSIC
Ancient Music. Mediaeval Music. Music of the

Sixteenth Century, of the Seventeenth Century, of the Eighteenth Century and the Classical School, and of the Nineteenth Century and the Romantic School. Later Modern Schools. Lectures supplemented by collateral reading.
Required for Degree of Mus. Bac.
Prerequisite, History 3 and 4.
Two hours, both semesters.

PIANO

Charles Howard Marsh

Annette Cartlidge

Flora Cordelia Cook

1. Piano

Technical training according to the principles of modern piano technique. Systematic training in art-principles of technique, phrasing and tone-quality. Elementary study of the characteristics of the various classic composers. Repertoire of selections from standard works by the best composers.
Two hours, first semester.

2. Piano

Technical training.
Continuation of classical study (at least two Sonatas).
Repertoire of selections from the works of the best composers, classic and romantic.
Two hours, second semester.

3. PIANO

Technical training. Study of the characteristics of the various classic composers. Repertoire.
Two hours, first semester.

4. PIANO

Technical training—Continuation of classical study (at least two Sonatas). Repertoire.
Two hours, second semester.

101. PIANO

Technical training. Romantic School. Beethoven Sonatas. Repertoire.
Exercises for the independence of the fingers. Bach, Chopin.
Two hours, first semester.

102. PIANO

Technical training—Bach (continued). Beethoven (continued). Chopin (continued).
Modern works.
Two hours, second semester.

103. PIANO

Technical training.
Studies selected from the works of the greatest masters of pianistic literature. At least one concerto.
Modern compositions.
Two hours, first semester.

104. PIANO

Technical training. Interpretations in Modern

School of Composition. Pedagogics (for prospective teachers.
Two hours, second semester.

PUBLIC SCHOOL MUSIC

Annette Cartlidge

The University offers unusual advantages to students wishing the best preparation for efficient teaching, especially to those who wish to prepare themselves to teach music in high schools in addition to French, English, or some other subject.

Teachers with experience in public schools and with some musical training, who desire to enter a special field, will find the course suited to their needs. Students may combine work in this department with the four years course in Liberal or Fine Arts.

1 AND 2. PUBLIC SCHOOL MUSIC

Fundamentals of music teaching in the kindergarten. Rhythmic expression. Singing games. Song interpretation. Individual singing. Work with monotones. Creative songs.
Fundamentals of music teaching in the primary grades, including first, second, and third grades.
The work of the kindergarten expanded and enlarged. Practice teaching.
Fundamentals of music teaching in the fourth, fifth, sixth, seventh, and eighth grades. High School course outlined. Preliminaries to sight singing, chorus, glee clubs, orchestra, music appreciation,

presentation of harmony, analysis, musical form, materials, and practice teaching.
Two hours, both semesters.

3 AND 4. SIGHT SINGING AND EAR TRAINING
Two hours, both semesters.

THEORETICAL SUBJECTS

HARMONY, COUNTERPOINT, FORM AND COMPOSITION

Charles Howard Marsh

Flora Cordelia Cook

1. HARMONY

The rudiments of music. Major and minor scales. Intervals Chords and their inversions.
Two hours, first semester.

2. HARMONY

Harmonization of figured basses and melodies using triads.
Two hours, second semester.

3. HARMONY

The dominant seventh and ninth chords and their inversions. Modulation. Secondary sevenths.
Prerequisite, 1 and 2.
Two hours, first semester.

4. HARMONY

Suspensions and embellishments.
Diminished seventh chords.

Chromatic harmony.
Two hours, second semester.

5 AND 6. APPRECIATION OF MUSIC

A non-technical course open to all the students of the University and designed to develop intelligent discrimination in listening to music. Various styles of music will be studied, modern tendencies discussed, master works analyzed. Correlation of the arts. Music criticism. Collateral reading.
Two hours, both semesters.

101. COUNTERPOINT

Prerequisite, 1-4.
Two hours, first semester.

102. CANON AND FUGUE

Prerequisite, 101.
Two hours, second semester.

103. HARMONIC ANALYSIS AND MUSICAL FORM

Survey of Modern Harmony; orchestration; form.
Prerequisite, 1-4.
Two hours, first semester.

105 AND 106. COMPOSITION

Motive and phrase building; original settings of selected texts for solo voices, for men's and women's voices and for mixed chorus. Composition in the various forms and orchestra scoring, a study of the technical peculiarities of orchestra instruments. The modern orchestra.
Prerequisite, 1-4.
Two hours, both semesters.

VIOLIN

Joseph Zoellner, Sr.

The following courses are in the main only suggestive as the individual needs of the student must be paramount always. The Belgian style of playing will be advocated as the most efficient both for technic and tone production.

In addition to the following material Mr. Zoellner will use technical exercises originated by himself.

1. Violin
   Herman method, first part of Book I.
   Violin Technique; Sevcik, Book I.
   Training of ear; bowing and left hand.

2. Violin
   Herman method, second and third parts of Book I.
   Violin Technique; Sevcik-Schradieck.
   Etudes: Kayser, Mazas, Herman, etc.
   Easy solos from the different composers.

3. Violin
   Herman method, first part of Book II.
   Violin Technique; Sevcik Book II.
   Scales and other studies.
   Etudes: Fiorillo, Mazas, Leonard, Dont, etc.
   Solos according to ability of student.

4. Violin
   Herman method, second part of Book II.
   Violin Technique; Sevcik.
   School Concerti and other selections; Ries, Viotti, Rode, etc.

101. VIOLIN
Herman method.
Violin Technique; Sevcik-Schradieck.
Etudes: Herman, Dont, Mazas, etc.
Concerti, Sonate and other solos from modern and old composers.

102. VIOLIN
Herman method.
Violin Technique; Sevcik.
Concerti, Sonate and other solos from Beethoven, David, Brahms, Bach, etc.

103. VIOLIN
Violin Technique; Sevcik.
Etudes: Rode, Gavinie, Leonard, Campanolli, etc.
Concerti: Spohr, Vitalli, Lipinski, etc.
Sonate: Bach, Tartini, Corelli.

104. VIOLIN
Violin Master Technique; Sevcik.
Etudes: Leonard, Petri, Dont, Vieuxtemps, Paganini.
Concerti for finish and interpretation; Max Bruch, Mendelssohn, Wieniawski, Beethoven, Paganini, etc.
Also concerti of the modern masters.

VOICE

Ezri Alfred Bertrand

1. VOICE
Primary voice culture. Proper control of the breath, ear and mental training in regard to tone-quality.

Concone's Fifty Lessons for Medium Part of Voice.
Two hours, first semester.

2. VOICE

The anatomy and physiology of the vocal organs and connecting parts.
The general principle of vocalization.
Active and passive agents.
Blending the registers.
"Vaccai" (English and Italian).
Two hours, second semester.

3. VOICE

Concone.
Easy songs in English.
Songs by early Italian writers.
Ensemble singing.
Two hours, first semester.

4. VOICE

Concone's Forty and Twenty-five Lessons for Med-Medium Part of Voice.
Sacred and secular songs in English.
Early Italian Classics.
Two hours, second semester.

101. VOICE

Continuation of Voice 4. Masterpieces of vocalization—Spicker. Later Italian Classics; Mozart, Haydn, Rossini, Donizetti, Bellini, Verdi, etc.
Moderately difficult Oratorio and Opera Arias in English and Italian.
Two hours, first semester.

102. VOICE

The trill and other embellishments. General training in agility. Modern Italian and French song literature.
Pedagogy.
Interpretation.
Two hours, second semester.

103. VOICE

Continuation of Voice 102. Ensemble singing.
Oratorio and opera.
Modern songs by American composers.
Repertoire.
Pedagogy.
Two hours, first semester.

104. VOICE

Oratorio and opera.
General International Repertoire (compositions sung in the original languages).
General training for teachers of voice.
Two hours, second semester.

Register of Students

GRADUATES OF 1920

BACHELOR OF ARTS

Ruth Anna Blowers
Jean Alexander Brownlie
May Angeline Coggins
Fred Dow Fagg, Jr.
Marjorie Lamont Foskett
Mary Dorothy Freeman
Evelyn Anderson Grant
David Fraser Hemenway
Felipe Inocencio
Marie Virginia Johnson
Josephine Kerrick
Helen Beulah Kincher
Lois Mabel Lyon
Dorothea Eckstrom Nelson
Herbert James Powell
Clara Sager
W. Curtis Sawyer
Harold Finch Seal
Gwendolyn Maude Tinker
Glessner Tolle
Park Lovejoy Turrill
Raymond Edward Untereiner
Gladys Barr Wall
Charles Merle Waterman

BACHELOR OF MUSIC

Helen Elizabeth Cruickshank
Beulah Flora Dye
Sarah Irene Finley
Lucile Crews Marsh
Ruth Leona Sawyers

REGISTER OF STUDENTS

"(2)" written after a name denotes that the student was registered for the second semester only. The number after each name denotes the number of college hours completed to date.

Abbey, J. Walker, 101	Alhambra
Adair, Mary Ellen, 14	San Bernardino
Allen, Barbara Lindsley, 15	Redlands
Anderson, Donald S. C., 89	Redlands
Anderson, Leo Ellis, 18	Beaumont
Anderson, Laura Frances, Sp	Beaumont
Andrews, Eleanor, 82	Redlands
Armstrong, Mary Elizabeth, 56	Morena
Arney, Vorie Wyckoff (2)	Coalinga
Axworthy, Cecil T., 33	Redlands
Backlund, Milton Andrews, 17	Kingsburg
Backus, Leonard Theo., 11	Banning
Badgett, Ina Elizabeth, 14	Miles City, Mont.
Baker, Elmer Romer, 21	Pasadena
Barney, Mamie Roberts, 7	Merced
Barrett, M. Virginia, 119	Redlands
Baughman, Helen Olive, 20	Redlands
Beightol, Esther Elizabeth, 17	Redlands
Belden, L. Burr, 86	San Diego
Bell, Archibald Weir, 78	Redlands
Bentzein, Edith Katherine, 44	Pasadena
Bigelow, Grace, 52	Selma
Black, Bernice Marie, 55	Redlands
Boling, Leon, 50	Redlands
Boulette, Marion Louise, 51	National City
Bourlier, Perry Le Roy, 54	Redlands
Bradley, Robert Melville, Jr., 4	San Bernardino
Branch, Clara Louise, 37	Hermosa Beach
Branch, James Delmar, 39	Hermosa Beach

Bredon, Forrest, 110 ....Redlands
Brevig, Mamie C., 14 ....Minneapolis, Minn.
Briggs, Mary Evelyn, 38 ....Long Beach
Briscoe, Beryl, 28 ....Fresno
Bristol, Helen H., 10 .... Highlands
Bristow. William Peyton, 92 ....Redlands
Brooks, Raymond Maurice ....Redlands
Brougher, James Whitcomb, Jr., 18 ....Los Angeles
Brown, Geo. Gardner, 53 ....Long Beach
Bruington, Paul Le Roy, 51 ....Pomona
Bryant, Elizabeth Arabella, 55 ....Colorado Springs, Colo.
Buchanan, Ethel May, Sp. ....San Bernardino
Bugbee, Grace Katherine, 50 ....Redlands
Bugbee, Sibyl Margaret, 8 ....Portland, Ore.
Bugbee, Solon Kennedy, 15 ....Portland, Ore.
Burkey, Ulysses, 74 ....San Bernardino
Burwell, Lorus Clifford, 13 ....Loma Linda

Carlson, Roy Washington, 75 .... San Jose
Carpenter, Ben William, 27 ....Los Angeles
Cartwright, Vera Mae, 38 ....Long Beach
Cavanaugh, Nancy Berry, 17 ....Pasadena
Champion, John H. W., 110 ....Redlands
Christensen, Louella Lydia, 16 .... Selma
Christensen, Rozella Viola, 53 ....Selma
Clevenger, Edna Amanda, 15 ....Caruthers
Coburn, Ruth Brunette, 52 ....National City
Cole, Lois Webster, 51 ....Pasadena
Colley, William L., 127 ....Redlands
Collins, Nellie Elaine, 18 ....Bakersfield
Cook, Clyde, 75 ....Redlands
Cooper, Sidney Benjamin, 85 ....Santa Barbara
Copeland, Mary Emma, 17 ....Downey
Cornell, Chester Elmo, 14 ....Loma Linda
Cortner, Catherine Lucile, Sp. ....Redlands
Covington, Iva Marguerite, 14 ....Beaumont

Cox, Vivian Adelia, 18	Escondido
Crandall, Ada Elizabeth, 18	National City
Crandall, Stephen Adam, 12	National City
Crowe, Cecil Morgan, 82	Ojai
Cruickshank, Ruth Marian, 48	Yucaipa
Cummings, Lawrence Blair, 17	Pasadena
Cummings, Oliver deWolf, 112	Pasadena
Cummings, William Vaughn, 106	Pasadena
Cushing, Horace Samuel, 81	Redlands
Daniels, Lola, 112	Redlands
Daniels, Rose, 81	Redlands
Dannemann, Elizabeth Ida, 17	Orange
Darby, Hermon K., 9	Selma
Davidson, Miriam Corbin, 46	Los Angeles
Davis, Grace Louise, 107	Clarendon, Tex.
Davis, Sallie Belle, 17	Clarendon, Tex.
Day, Hugh William, 18	Colton
DeBaum, Edith Mae, 16	Eagle Rock
Deming, Beatrice Angeline, 18	Monrovia
Deming, Harry T., Sp.	Redlands
Doty, Harold E., 8	Redlands
Downer, Lewis, 55	San Jose
Dunham, Constance Estelle, 37	Yucaipa
Dye, Fred Lee, 110	Redlands
Edwards, Catherine Ann, 9	Pasadena
Ellis, Ruth, 67	Long Beach
Espy, Craig, 17	Phoenix, Ariz.
Everest, Emma Luella (2)	Pasadena
Farquhar, Mildred Ethel, 42	Redlands
Fate, Hugh Berry, 16	Loma Linda
Feekings, Gladys, 15	Phoenix, Ariz.
Fessenden, Alvah Grant, 43	San Bernardino
Finley, George H., 78	Santa Barbara
Finn, Ruth Marion, 42	San Diego
Fisher, Adolph William, 8	Shawnee, Okla.

Fisher, Joan, Sp.	Redlands
Fitch, Laurabel Leah, 17	Long Beach
Fitzsimmons, Helen Katherine, 121	Redlands
Floyd, Beatrice Connard, 18	Alhambra
Fogle, Ethel Louise, 16	Phoenix, Ariz.
Forbes, Alice Adaline, 18	Redlands
Ford, Fred Bennett, 42	Hanford
Ford, Helen Melvina, 82	Ceres
Forney, Ross Arthur (2)	Los Angeles
Fuller, Ida Adaline, 18	Mountain View
Funk, Fannie Belle, 86	Phoenix, Ariz.
Gaines, John S., 17	Hollywood
Gair, Milton Marshall, 81	Redlands
Ganter, Esther Minta, 16	South Pasadena
Garman, Robert Donald, 19	Los Angeles
Garstang, Gladys Eloise, 50	Alton, Ill.
Gerber, Loris Esmond, 17	Highland
Gisbon, Gladys Pansy, 8	Tempe, Ariz.
Gibson, Verona Mason, 79	Redlands
Gillogly, Delmo Orrin, Sp.	Redlands
Gilman, Marion Alice, 15	Banning
Glass, Winnetta, 49	Corona
Gleason, Paul Ray, 113	Corona
Gould, Roy Walter	Colton
Grassle, Pauline, 49	Redlands
Gregg, Ruth, 14	Redlands
Grinnell, Ruth Electa, 18	Redlands
Guely, Genevieve, 34	Chesley, France
Harkness, France, 80	Redlands
Harlow, Alfred, 4	Loma Linda
Harris, Melville Dan, 16	Redlands
Hasty, Charles Gerald, 40	San Diego
Hatcher, Abell Perry, 111	Redlands
Hedstrom, Florence Grace, 16	Anaheim
Hedstrom, Helen Sarah, 82	Anaheim

Heineman, Frieda Catherine, 17	Anaheim
Henderson, Ernest William, 81	Redlands
Henderson, Lillian R., 47	Franklin, Ind.
Hendrickson, Charlotte Cecelia, 17	Redlands
Henry, Mona, 14	Redlands
Heron, Lola Myrtle, 4	Redlands
Hickman, Marie, 17	Orosi
Higbey, Alberta, 47	Redlands
Hill, Romayne Bradford, 123	Laguna Beach
Hockridge, Catherine Elizabeth, 52	Redlands
Holdredge, William Decker, 18	San Bernardino
Holmes, Charles Chester, 17	Redlands
Holtz, Robert Ferdinand, 51	Pasadena
Hooper, Glenn Stephen, 15	Pasadena
Hopper, Loyd Erwin, 16	Riverside
Hotchkiss, Mabel Lucile, 111	Hollywood
Howells, Arthur Lee, 60	Redlands
Howland, Irene, 46	Los Angeles
Hunt, Eunice Martha, 14	San Luis Obispo
Hunt, Harry Frank, 16	Banning
Hunt, Mildred Jean, 16	San Luis Obispo
Hunter, Margaret McKenzie, 37	Los Angeles
Ignacio, Alfred Cecil, 8	Honolulu, H. I.
Jackson, Perry Lauer (2)	Clovis
James, Charles Neil, Sp.	Goshen, Ind.
Johnson, Lucile, 113	Redlands
Johnston, Margaret Louisa (2)	Redlands
Jones, Virginia May, 15	Sierra Madre
Kay, Ruth Elizabeth, 48	Phoenix, Ariz.
Kennard, Ada Marie, 79	Redlands
Kerr, Anita, 47	Redlands
Kilby, Colin O., 101	Coalinga
Kilby, Inezia Nita, 105	Coalinga
Knights, Kenneth S., 23	Long Beach
Knox, Irene, 92	Redlands

Knox, Loyd Bryan, 15	Redlands
Knox, Margaret Barron, 9	Ontario
Kyle, Helen Elizabeth, 65	Long Beach
Lackey, Delma B., 17	Burkburnett, Tex.
Lackey, Dick, 83	Long Beach
Lambert, Marian Louise, 18	Redlands
Langston, Edna May	Phoenix, Ariz.
Larsen, Ernest Robert, 37	Selma
Lautz, Victor Charles, 6	San Bernardino
Lehigh, Helen A., 88	Phoenix, Ariz.
Lehnhardt, Robert Louis, 14	Santa Ana
Leitner, Bessie Mae, 18	Miles City, Mont.
Lemberger, Karl William, 11	Redlands
Levering, Lee Gird	Redlands
Lindblom, Maria Theresa, 39	Redlands
Lobner, Francis Winther, 6	Selma
Lodwick, Vera Arleat, Sp.	Redlands
Logue, Lillie Belle	Claude, Tex.
Long, Violett Lanora, 16	Redlands
Longfellow, Grace Margaret, 16	Albuquerque, N. M.
Loper, Ted, 32	Redlands
Loper, William Harold, 98	Redlands
Lovegren, Effie Marie, 76	Cherry Grove, Ore.
Loyd, Florence Ary, 39	Redlands
MacMillan, Stuart Barclay, 83	Pasadena
MacNeur, Alexander, 13	Oakland
McCahan, E. Bernice (2)	San Bernardino
McCawley, May, Sp.	Redlands
McKericher, Melvin Stuart, 40	Redlands
McPhee, Claire Christina, 100	Santa Paula
McPhee, Douglas Gordon, 78	Santa Paula
Marburger, Helen Harriet, 17	Anaheim
Marchant, Loia Mildred, 121	Santa Ana
Marsh, Doris Gertrude, Sp.	Redlands
Matteson, Howard Eugene, 31	Long Beach

May, Arthur John, 12	Orosi
Merrill, Olive Josephine, 15	Redlands
Mick, Orville, 38	Maricopa
Mills, Eda Jane, 16	Coachella
Mills, Frank Bernard	Redlands
Mitchell, Margaret Anita, 17	Redlands
Moffitt, Dorothy Ellen, 18	Willitts
Moojen, Marian Anna, 17	Banning
Moore, Helen Luella	Redlands
Morris, Opal Elvira, 18	Safford, Ariz.
Morrow, Dorothy Ada, Sp.	Highland
Mullendore, William Earl, Jr., 59	Franklin, Ind.
Murphy, Ruth Elizabeth, 103	San Pedro
Negus, Howard Curtiss, 63	Los Angeles
Nelson, Ollie Rhodora, Sp.	Redlands
Netherton, Deidamia, 14	Redlands
Newman, Ruby Lorena, 4	Long Beach
Nicholson, Clarice, 49	Redlands
Ogden, Colon Robarts, 78	San Diego
Olson, Margaret Elizabeth	Redlands
Osborn, Dorothea Janet, 15	Peoria, Ariz.
Page, Ardena, 49	Santa Barbara
Parsons, Frances Ethelwyn, 16	Pasadena
Paul, William Howard, 27	Redlands
Peeler, Fannie Viola, 18	Corona
Pemberton, Lorwin Clifford, 17	Long Beach
Pitts, Dorothy Sara, 13	Long Beach
Polliard, Florence Laura, 19	Redlands
Potts, Louise Hunter	Reno, Nev.
Powell, Walter Leslie, 9	Brawley
Pray, Dorothy Elizabeth, 50	Redlands
Pugh, Gwladys Jane, 73	Redlands
Puntam, L. Marjorie, 83	Redlands
Reed, Mrs. Frances, Sp.	Redlands
Reeves, Zelda Fae, 44	Downey

Reid, Clyde Carson, 106 .... Reedley
Reynolds, Raymond Isaac, 77 .... Redlands
Richards, Walter John, 103 .... Pasadena
Roach, Virginia Elizabeth, 17 .... Redlands
Robbins, Gordon Hapgood (2) .... Long Beach
Robinett, Marguerite, 17 .... Price, Utah
Robinson, Bernice Winston, 17 .... San Bernardino
Robinson, Pauline Slayden, 68 .... Pasadena
Romberger, Arthur Vere (2) .... San Pedro
Ronzone, Margaret Theresa, 50 .... Redlands
Rosesteel, Abbie Louise, 14 .... Los Angeles
Rossier, Rodolphe Livingston, 13 .... Compton
Russell, Virginia Lee, 41 .... Santa Ana
Sackett, Hanford Beaar (2) .... Winters
Sackett, Marna Genevieve, 16 .... Winters
Salisch, Lydia Anne, 44 .... Long Beach
Salmons, Harriet Ora, 27 .... Oceanside
Sandidge, Mary Pearl, 17 .... Dinuba
Sanger, Floyd Chadbourne, 11 .... Hollywood
Sawyer, Southern Sam .... Long Beach
Scott, Dale F., 17 .... Redlands
Scott, Dorothy, 17 .... Redlands
Scott, Harold Hall, 112 .... Redlands
Sechrist, Melissa Hill, 7 .... Redlands
Shafer, Mildred Julia, 19 .... Pomona
Sharp, Winifred Lillian, 4 .... Colton
Simpson, Ralph Merrill, 6 .... Redlands
Skevington, Florence M., 82 .... Hollywood
Skinner, D. Doris, 49 .... Redlands
Smith, C. Davenport, 52 .... Redlands
Smith, Dwight Olney, 86 .... Long Beach
Smith, Houston Sherman, 20 .... Imperial
Smith, Inez Lucille, 102 .... Monmouth, Ill.
Smith, Jesse Lewis, 48 .... Redlands
Smith, Marjorie Eugenia, 57 .... Redlands

Smith, Wendell	Imperial
Snell, Beryl Esther, 105	Hollywood
Snowball, Helen Joy, 17	Pasadena
Southworth, Herbert Lindsay, 28	Redlands
Springston, Christine, 80	Los Angeles
Stacy, Mary Frances (2)	Miles City, Mont.
Stamps, Pearl Pauline, 18	So. Pasadena
Stannard, Fay Margaret, 9	Redlands
Stannard, Raymond Edward, 49	Redlands
Stewart, Cecil Clare, 69	Corona
Stockton, Georgia Susan, 45	Redlands
Stockton, Mary Catherine, 30	Redlands
Stokely, Berlyn H., Sp.	El Centro
Stower,Iola May, 51	Beaumont
Strang, Ted Alfred, 15	Redlands
Strout, Mervin Saunders, Sp.	Redlands
Stuart, Francis Eugene, 74	Exeter
Sweeney, Kathryn, 15	Redlands
Taylor, Floyd S., 54	Redlands
Taylor, John William, 50	Santa Ana
Taylor, Kemper McDaniel, 17	Santa Ana
teGroen, Dick, 65	Long Beach
Thomason, Julia Ruth, 53	Hollywood
Thompson, Robert D., 18	Eugene, Ore.
Tichenor, Norma Irene, 19	Redlands
Tilton, Horace Scott, 26	Redlands
Toeppler, Mrs. Edward, Sp.	Highland
Tolleson, Elma, 60	Phoenix, Ariz.
Tolleson, Walter Gist, 73	Phoenix, Ariz.
Towner, Charles Benjamin, 17	San Jose
Troyer, Jot Vance, 16	Hollywood
Troyer, William Carey, 71	Hollywood
Truesdail, Roger Williams, 113	Redlands
Trussell, Rebecca Harriett, 18	Escondido
Upp, Dorothy Jeanette, 16	Willitts

Van Guysling, Elizabeth Annette, 18	Los Angeles
Vingren, Leslie Carl	Kingsburg
Violett, Ruth Bailey, 48	Garden Grove
Wagner, Florence June, 118	San Jose
Walker, Margaret Jane, Sp.	Redlands
Wall, Thelma Beatrice, 18	Selma
Walton, Mildred Elizabeth, 13	Sanger
Ward, Charles Gilmore (2)	Colton
Waring, Walker Stine, 14	Redlands
Warren, Clyce Maxwell, 13	Selma
Watenpaugh, Lillian May, 9	Ontario
Wedberg, Fred John, 12	Redlands
Wedberg, Hilda G., 111	Redlands
Wehman, Phillip John (2)	San Pedro
Weld, Max L., 36	Redlands
Wells, Ruth, 16	Pasadena
Wente, Edith Grace, 116	Selma
Wessells, Florence Gillett, 17	Los Angeles
Wheat, Marjorie Elizabeth, 49	Redlands
White, Ethel Grace, 14	Banning
Widney, Vincent, 70	Pasadena
Wightman, Don Sprague, 44	Long Beach
Wilkes, Kathleen Merle, 17	Redlands
Wilkes, Margaret Elizabeth, 70	Redlands
Williams, Alma, 19	Hollywood
Williams, Dorothy Daisy, 19	Porterville
Williams, Esther J., 48	Corona
Williams, Eva Mae, 39	Redlands
Williams, George L., 77	La Mesa
Willis, Caroline (2)	Redlands
Wisdom, Alta Margaret, 17	Escondido
Woodhull, Martha Darling, 7	Redlands
Woodworth, Esther Elizabeth, 48	Redlands
Wright, Florence Harriett, 108	Los Angeles
Wright, Frederick Holmes, 23	Santa Ana

Wright, Hortense Marian, 78	Hanford
Yoder, Joyce Mary, 3	Redlands
Yokoi, Jutaro, 16	San Diego
Young, James W., 38	Redlands
Yount, Lloyd David, 38	Redlands
Yount, William Joseph, 84	Redlands
Zedeker, Everest Pearce, 61	Pasadena
Total enrollment	351

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1921/22

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UNIVERSITY
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BULLETIN

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Annual Catalog

VOL. XII JUNE, 1922 No. 1

PUBLISHED QUARTERLY BY THE
UNIVERSITY OF REDLANDS

UNIVERSITY *of* REDLANDS

Fourteenth

Annual Announcement

Redlands, California
1922-1923

Entered as Second-Class Matter, May 1, 1911,
at the Postoffice at Redlands, California,
Under the Act of July 16, 1894

FACTS COMMERCIAL PRESS
REDLANDS, CALIFORNIA

CALENDAR

1922

	Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.		Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
July							1	**Oct.**	1	2	3	4	5	6	7
	2	3	4	5	6	7	8		8	9	10	11	12	13	14
	9	10	11	12	13	14	15		15	16	17	18	19	20	21
	16	17	18	19	20	21	22		22	23	24	25	26	27	28
	23	24	25	26	27	28	29		29	30	31				
	30	31						**Nov.**				1	2	3	4
Aug.			1	2	3	4	5		5	6	7	8	9	10	11
	6	7	8	9	10	11	12		12	13	14	15	16	17	18
	13	14	15	16	17	18	19		19	20	21	22	23	24	25
	20	21	22	23	24	25	26		26	27	28	29	30		
	27	28	29	30	31			**Dec.**						1	2
Sep.						1	2		3	4	5	6	7	8	9
	3	4	5	6	7	8	9		10	11	12	13	14	15	16
	10	11	12	13	14	15	16		17	18	19	20	21	22	23
	17	18	19	20	21	22	23		24	25	26	27	28	29	30
	24	25	26	27	28	29	30		31						

1923

Jan.		1	2	3	4	5	6	**Apr.**	1	2	3	4	5	6	7
	7	8	9	10	11	12	13		8	9	10	11	12	13	14
	14	15	16	17	18	19	20		15	16	17	18	19	20	21
	21	22	23	24	25	26	27		22	23	24	25	26	27	28
	28	29	30	31					29	30					
Feb.					1	2	3	**May**			1	2	3	4	5
	4	5	6	7	8	9	10		6	7	8	9	10	11	12
	11	12	13	14	15	16	17		13	14	15	16	17	18	19
	18	19	20	21	22	23	24		20	21	22	23	24	25	26
	25	26	27	28					27	28	29	30	31		
Mar.					1	2	3	**June**						1	2
	4	5	6	7	8	9	10		3	4	5	6	7	8	9
	11	12	13	14	15	16	17		10	11	12	13	14	15	16
	18	19	20	21	22	23	24		17	18	19	20	21	22	23
	25	26	27	28	29	30	31		24	25	26	27	28	29	30

Contents

Accrediting by U. of C. and Stanford, et al.................... 39
Admission—College of Liberal Arts.............................. 27
    College of Fine Arts............................... 99
Advanced Standing 28
Art Department 107
Astronomy 42
Athletics 82
Athletic Park 26
Biblical Studies 42
Board and Rooms 33
Board of Trustees 9
Botany 43
Buildings 19
Chemistry 45
Christian Associations 24
College Calendar 7
Colors 26
Concerts and Recitals 103
Courses—College of Fine Arts, Music 108
    Art 107
Degrees—Baccalaureate—College of Liberal Arts............... 28
    College of Fine Arts 99

Departments of Instruction (See Description of Courses)

Diplomas—College of Liberal Arts 28
    College of Fine Arts—Music 99
Dormitories 21
Economics 48
Education 78
Engineering 51
English 53
Expenses—College of Liberal Arts 34
    College of Fine Arts 34
    Dormitory 35, 36, 37
Faculty 11

Fees (see Expenses)

French 59
General Requirements, etc. 30
Geology 61

CONTENTS

German 61
Glee Clubs 25
Grading 32
Graduates, 1921 117
Graduation (Requirements for)—College of Liberal Arts 40
College of Fine Arts 100
Greek 63
Gymnasium 23
Harmony 110
Historical 18
History 65
History of Art 108
History of Music 112
Hygiene 72
Latin 72
Library 37
Literary Societies 25
Majors' and Minors 41
Matriculatoin 29
Mathematics 75
Museum 38
Music Credit for A. B. Degree 77
Music (see College of Fine Arts)
Organizations 23
Philosophy 78
Physics 83
Physical Education 81
Piano 108
Political Science 84
Prizes 38
Publications 25
Public School Music 100, 111
Public Speaking 58
Register of Students 118
Registration 29
Requirements for Graduation—College of Liberal Arts 40, 41
College of Fine Arts 100
Rooms, Rental 36
Schedule of Recitations 91
Scholarships 33
Spanish 86
Special Students 30, 100
Standing Committees 17
Student Aid 33

Theory **110**
Trustees **9**
Violin **113**
Voice **114**
Zoology **88**

College Calender

1922

September 16th, Saturday—First meeting of the faculty, at 8:30 a. m.

September 18th and 19th, Monday and Tuesday—Entrance examinations and registration for first semester.

Note—The Monday registration is especially intended for students living in and near Redlands

September 20th, Wednesday—First semester begins with Assembly, at 10:30 a. m.

November 30th, Thursday, to December 4th, Monday at 7:45 a. m., Thanksgiving recess.

December 15th, Friday—Christmas Vacation begins at 4:00 p. m.

1923

January 2nd, Tuesday—Christmas Vacation ends at 7:45 a. m.

January 29th to February 2nd inclusive—Examinations for first semester.

February 5th, Monday—Second semester begins at 7:45 a. m.

February 25th, Sunday—Day of Prayer for Colleges.

March 23d, Friday—Spring Vacation begins at 4:00 p. m.

April 2nd, Monday—Spring Vacation ends at 1:15 p. m.

June 11th to 18th inclusive—Examinations for second semester.

June 16th, Saturday—Anniversary of the College of Fine Arts, Department of Music, 8:00 p. m.

June 17th, Sunday—Baccalaureate Sermon, 11:00 a. m. Service, 7:30 p. m.

June 18th, Monday evening—Annual Zanja Fiesta.

June 19th, Tuesday—Alumni meeting and banquet, 11:00 a. m.

Annual Meeting of the Board of Trustees, 10:30 a. m.

Class Day.

June 20th, Wednesday—Commencement, 10:30 a. m. College Luncheon.

Board of Trustees

MEMBERS OF THE BOARD

Term Expiring 1923

Arthur Gregory, Redlands.
Geo. D. Knights, Long Beach.
James A. Francis, Los Angeles.
F. C. Lovett, Napa.
Daniel Smiley, Redlands.
A. M. Lewis, Riverside.
F. O. Belden, San Diego.
C. W. Goodman, Phoenix, Ariz.
Roy L. Kent, Glendale.

Term Expiring 1924

Mattison B. Jones, Los Angeles.
J. H. Merriam, Pasadena.
C. W. Brinstad, San Francisco.
H. L. Moody, San Diego.
L. A. Boadway, Pasadena.
Weymouth Crowell, Los Angeles.
Mrs. W. H. Jameson, Corona.
J. J. Harrison, Santa Ana.
Walter J. Hentschke, Redlands (Alumni Representative).

TERM EXPIRING 1925

J. Harvey Deere, Pomona.
H. E. Wilkinson, Fresno.
J. Whitcomb Brougher, Los Angeles.
J. H. Strait, Redlands.
W. H. Fowler, Los Angeles.
W. F. Harper, Los Angeles.
Mrs. Martin Bekins, Los Angeles.
J. W. Curtis, San Bernardino.
John N. Garst, Oakland.

OFFICERS OF THE BOARD

Mattison B. Jones, President - - Los Angeles
722 Merchants' National Bank Building
L. A. Boadway, Vice-President - - Pasadena
268 East Colorado
J. W. Curtis, Secretary - - - San Bernardino
680 E Street
Geo. P. Cortner, Business Manager and Treasurer.
J. Margaret Swope, Assistant Treasurer.

EXECUTIVE COMMITTEE

W. H. Fowler, Chairman.
J. H. Merriam, Vice-Chairman
J. W. Curtis, Secretary.
J. H. Strait.
Geo. D. Knights.
Mattison B. Jones
L. A. Boadway

Faculty

College of Liberal Arts

Victor LeRoy Duke, A. M., LL. D., President.

University of Redlands, 1909—.
Residence, 155 E. Cypress Avenue.

A. Harvey Collins, A. M., Registrar.
Professor of History.
University of Redlands, 1909—.
Residence, 522 Cajon Street.

James W. Kyle, A. M.

Professor of Ancient Languages.
University of Redlands, 1909—.
Residence, 621 N. University Street.

S. Guy Jones, B. S.

Professor of Chemistry.
University of Redlands, 1909—.
Residence, 1421 West Cypress Avenue.

***George Robertson**, A. B.

Professor of Zoology and Geology.

University of Redlands, 1909—

*Deceased November, 1921.

Herbert E. Wise, A. M.
Professor of Philosophy and Education.
University of Redlands, 1910—.
Residence, 614 Alvarado Street.

Edith Abigail Hill, A. B.
Professor of Romance Languages.
University of Redlands, 1910—.
Residence, 14 Clifton Avenue.

Herbert Eugene Marsh, B. S.
Professor of Physics and Engineering.
University of Redlands, 1912—
Residence, 618 East Fern Avenue.

Egbert Ray Nichols, A. M.
Professor of English Language and Literature
University of Redlands, 1913—.
Residence, 814 Campus Avenue.

Howard C. Tilton, A. M.
Professor of Social Science and Economics.
University of Redlands, 1914—.
Residence, 614 East Fern Avenue.

Mary Louise Todd, A. M.
Associate Professor of English.
University of Redlands, 1914—.
Residence, 103 Norwood Street.

Emma Kirtland Whiton, A. M.
Professor of Mathematics.
University of Redlands, 1918—.
Residence, Casa Loma Hotel.

HOWLAND CYRUS MERRILL, A. M.

Professor of Political Science and European History.
University of Redlands, 1920—
Residence, 518 West Olive Avenue.

EDA M. FALKLAND, A. B.

Associate Professor of Physical Education and Hygiene.
University of Redlands, 1920—
Residence, Fairmont Hall.

FREDERICK H. BILLINGS, A. M., Ph. D.

Professor of Botany and Bacteriology.
University of Redlands, 1921—
Residence, 1419 West Cypress Avenue.

EDGAR BATES VAN OSDEL, A. M.

Professor of Physics and Astronomy.
University of Redlands, 1921—.
Residence, 538 Cajon Street.

FRANK H. REINSCH, A. M., Ph. D.

Professor of German.
University of Redlands, 1921—
Residence, 118 Myrtle Street.

CAROLINE SHELDON MOORE, A. B.

Associate Professor of Biology
University of Redlands, 1921—
Residence, 32 So. University Street.

KENNETH L. DOLE, M. D.
Lecturer on Hygiene to Men.
University of Redlands, November, 1921—.

GUY DANIELS, A. B.
Professor of Physical Education.
University of Redlands, 1921—.

MAX A. CRANMER
Instructor in Baseball.
University of Redlands, 1921—.

MRS. ALLEN C. KEITH, A. B.
Dean of Women and Assistant Professor of Mathematics.
University of Redlands, 1922—.

CHARLES H. ABBOTT, A. M., Ph. D.
Professor of Zoology.
University of Redlands, 1922—.

WILLIAM T. DARBY, A. M.
Professor of English Literature.
University of Redlands, 1922—.

SELDEN W. CUMMINGS, A. B., LL. B., D. D.
Crawford Professor of Biblical, Missionary and Ethical Instruction.
University of Redlands, 1922—.

ELEANOR SYKES, A. B.
Assistant Professor of Romance Languages.
University of Redlands, 1922—.

ELEANOR A. SYMMES, A. B.
Librarian.
University of Redlands, 1914—.
Residence, 510 Alvarado street.

College of Fine Arts

VICTOR LEROY DUKE, A. M., LL.D., **President**.

CHARLES HOWARD MARSH, A. A. G. O.
Professor of Piano, Organ and Theory.
University of Redlands, 1919—
Residence, 108 West Fern Avenue.

KATE WATKINS.
Instructor in History of Art and Applied Art.
University of Redlands, 1913—.
Residence, University.

FLORA CORDELIA COOK, Mus. Bac.
Assistant Professor of Piano.
Harmony and History of Music.
University of Redlands, 1913—.
Residence, Cypress Court.

FRANCES ANNETTE CARTLIDGE.
Associate Professor of Piano and Public School Music.
University of Redlands, 1915—.
Residence, 720 Cedar Avenue.

JOSEPH ZOELLNER.
Professor of Violin.
University of Redlands 1919—

ELLIS RHODES.
Professor of Voice.
University of Redlands, 1921—.

MEETINGS

The faculty meets in regular sessions on the first and third Tuesdays of the calendar month and at other times at the call of the President.

HOUSE MOTHERS

Miss Eda M. Falkland .... **Fairmont Hall**
University of Redlands, 1920—

Mrs. Marguerite Messenger........................Bekins Hall
University of Redlands, 1921.

Mrs. Anna McCabe......................................California Hall
University of Redlands, 1922.

Mrs. Annie O. Schofield..............................Reavis Hall
University of Redlands, 1921.

PROCTORS

Fred Dye...California Hall
University of Redlands, 1921.

E. E. Duley..California Hall
University of Redlands, 1922.

STANDING COMMITTEES

1922-23.

The president is ex-officio a member of all committees.

Athletics—
S. Guy Jones, H. E. Marsh, Guy Daniels.

Christian Work—
H. E. Wise, E. B. Van Osdel, M. L. Todd.

Credentials—
A. H. Collins, F. H. Reinsch, H. C. Merrill.

Curriculum—
H. C. Tilton, S. G. Jones, E. A. Hill.

Discipline—
H. C. Tilton, F. H. Billings, E. K. Whiton.

Library—
H. E. Wise, H. C. Tilton, E. R. Nichols, W. H. Fowler from the Board of Trustees.

Museum—
F. H. Billings, E. B. Van Osdel.

Prizes—
J. W. Kyle, H. E. Marsh, M. L. Todd.

Publications—
A. H. Collins, E. R. Nichols, E. K. Whiton.

Schedule—
S. G. Jones, A. H. Collins, H. C. Merrill.

Student Activities—
Mrs. Keith, E. A. Hill, C. H. Marsh, E. B. Van Osdel.

University of Redlands

HISTORICAL

On the seventh day of December, 1906, the Baptists of Southern California, in Convention assembled in Berean Hall, Los Angeles, resolved to found and foster a high grade Christian college. A committee of twenty-one representative men was appointed to select the location for the college, manage the campaign for a Founding Fund and organize the institution.

The canvass for a Founding Fund of $300,000 was begun the first of September, 1907, and so hearty was the response that at the Convention held in Los Angeles in January, 1909, the Committee was able to announce the assured success of the movement.

The location of the college at Redlands was due both to the acknowledged fitness of the city as a home for such an institution and the generous offer of a campus of forty acres and $100,000 toward the Founding Fund. To the forty acres given by Redlands for a campus has since been added thirty-three acres, including the baseball park and the beautiful University Hill, now occupied by the Administration Building, the Hall of Science, and Knoll Hall.

The University of Redlands was incorporated under that title in 1907. On September 29th, 1909, less than three years from the time of the inception of the movement, the institution threw open its doors to the public.

The College of Liberal Arts was organized and continued thru the first semester of 1909-10 in the Bible School rooms of the First Baptist Church of Redlands. In February, 1910, the ample Administration Building was occupied.

The College of Fine Arts has from the beginning been a prominent feature of the plans of the University. The completion of the first unit of the Fine Arts buildings in 1921 provides ample and well arranged facilities for carrying on this work.

LOCATION

Redlands, the home of the University, is a beautiful city of 10,000 inhabitants, situated sixty-six miles east of Los Angeles, in the heart of the largest orange growing district in the world, and close to the San Bernardino mountains. On account of the elevation of 1400 feet, the city has as nearly an ideal climate as it is possible to find, sometimes touching the frost point in winter, warm in summer; but, even the warmest summer months, always having cool and restful nights. Steam, trolley and automobile transportation connect Redlands with Los Angeles and other nearby cities.

BUILDINGS

The College buildings now number eleven, seven of which number are permanent, well-planned structures, modern and thoroly equipped. These buildings, of gray concrete with red tile roofing, form a picturesque group about the quadrangle, and comprise a substantial nucleus of a preconceived plan for a conveniently arranged and unusually attractive campus.

ADMINISTRATION BUILDING

The main building of the University scheme was completed in 1910. It is centrally located upon the crest of University Hill, affording a view of the campus and of a vast panorama of marvelously beautiful country. The massive structure and commanding position of this building make it an imposing land-mark. It contains the administrative and business offices, lecture and recitation rooms of the College of Liberal Arts and two assembly halls for meetings of the Christian Associations. Here also are to be found the temporary homes of the Library, the College Store and the Museum.

THE HALL OF SCIENCE

The corner stone of the new Hall of Science was laid January 13, 1920. This building costing $160,000, is a reinforced concrete structure. It is fire-proof, well lighted and properly ventilated.

The departments of Physics and Engineering occupy the first floor. This contains two lecture rooms, fully equipped mechanical drawing and blue print rooms, a balance room, the departmental library and three laboratories, for general, optical, and electrical work. Special features of the general laboratory are an experimental switch board for both direct and alternating currents and tubes supplied with electrical connections, gas and compressed air. The second floor is devoted entirely to the departments of Biology and Geology. There are four Biological laboratories, two for Botany and two for Zoology; a Geological laboratory, two lecture rooms and three stock rooms. The third floor is devoted exclusively to the department of Chemistry. Here are four laboratories for the study of General, Quantitative, Organic, and Physical Chemistry. Other special features of this floor are the departmental library, two balance rooms, stock rooms and a photographic dark-room.

THE FINE ARTS BUILDINGS

One of the two wings of the Fine Arts group was completed in 1921 at the north end of the quadrangle. According to the campus plan these buildings are later to be joined by colonades to an auditorium which will have a seating capacity of about 1200 and be equipped with a fine pipe organ.

WOMEN'S DORMITORIES

BEKINS HALL

Bekins Hall is the gift of Mr. and Mrs. Martin Bekins, of Los Angeles. The building is classic in architecture and absolutely fireproof in construction. It contains rooms for the accommodation of fifty-six young women, besides reception rooms, dining hall and kitchen, and a specially equipped laundry. Many of the rooms are connected with private baths. Ample verandas and a roof garden foster out-door life.

FAIRMONT HALL

Fairmont Hall, a second dormitory for women, the gift of another generous friend, was completed and occupied early in the College year of 1920-21. This beautiful hall stands somewhat to the north of Bekins Hall and in architectural plan is similar to the latter building. This hall accommodates fifty-two women.

KNOLL HALL

To the east of the Administration Building on University Hill stands Knoll Hall, at present used as a dormitory accommodating about twenty women.

The fund for this building was largely the gift of the late Mrs. Julia A. Libby, of Santa Ana, California.

MEN'S DORMITORIES

CALIFORNIA HALL

California Hall, the new dormitory for men stands at the east side of the quadrangle and near to the athletic field. This building, beautiful in appointments and architectural plan, affords an attractive and comfortable home for fifty-four men. Each floor is equipped with shower baths. Club and game rooms, a large dining room and a kitchen occupy the lower floor.

REAVIS HALL

Reavis Hall, a second men's dormitory named in honor of the late Benjamin H. Reavis, of Orange, Cal., provides accommodations for about eighteen men.

ASSEMBLY HALL

Among the stately trees bordering the Zanja is the Assembly Hall, erected in the fall of 1918. The hall is provided with stage and dressing rooms.

In addition to its use for the daily assembly of faculty and students, it furnishes a center for social and literary entertainments.

GYMNASIUM

At the northeast corner of the Campus and beyond the athletic field stands the Gymnasium. It consists of two units; the first containing showers, dressing rooms and lockers for men, the second and adjacent to the first is the gymnasium proper with a floor space 40 feet by 45 feet for measurements, apparatus and rooms for visiting teams; a game and calisthenic floor 40 feet by 75 feet, also seating for about 400 spectators. In this second unit are the well-equipped showers and dressing rooms for women.

ORGANIZATIONS

Associated Student Body

The Associated Student Body is composed of all the students matriculated in the two colleges of the University. Its officers are chosen by the student body from their own number. Regular meetings are held each week to deal with matters of general interest to all students.

Pi Kappa Delta

The University of Redlands has a chapter of Pi Kappa Delta, a forensic honor society now made up of

70 chapters in the colleges of the United States, from Maine to California. All orators and debaters who represent the institution in inter-collegiate contests are eligible to membership and are elected upon application. The organization confers an honorary key which is jewelled to show the achievement in forensics attained by the wearer.

THETA ALPHA PHI

Theta Alpha Phi is a national honor society for students who take part in dramatic activities. It was organized in December, 1919, at the meeting of the National Association of English and Public Speaking Teachers in Chicago. It now has many chapters in various colleges and universities of the country and is growing rapidly. It publishes a quarterly magazine called "The Cue". The University of Redlands has the California Alpha chapter.

CHRISTIAN ASSOCIATIONS

Branches of the College Departments of the Young Men's Christian Association and the Young Women's Christian Association are doing active and effective work. Each association holds a weekly meeting. Representatives from the societies are sent to the Bible and General Conferences for Colleges. The good effect of these Christian organizations is very marked in the daily life of the student body. Every encouragement and assistance is given these organizations by the faculty.

College Glee Clubs

The Men's Glee Club of the University in its sixth year of organization has grown in popularity. A successful trip was made thru portions of Central California during the spring vacation.

The Women's Glee Club of the University, organized in 1917, comprises some 20 splendid voices. With the Director the Club gave several successful entertainments thruout Southern California during the spring vacation.

Le Poste d' Ecoute

The literary society for women has adopted the name Le Poste d'Ecoute, the listening posts from which information concerning the enemy is sent back thru the communicating trenches.

According to the name, the objects of this organization are to promote interest and alertness in all cultural lines and to maintain literary, social and patriotic standards among the women of the University.

Membership is open to the women of the University who maintain a high standard of excellence in their work.

Hellenic Club

The Hellenic Club, including all students of Greek, meets Friday afternoons twice a month for conversation in Modern Greek and reading stories.

COLLEGE PUBLICATIONS

The University of Redlands publishes a quarterly bulletin, one number of which is the annual catalog. The other three are devoted to special studies and reports of officers and other matters of importance.

STUDENT PUBLICATIONS

The Campus, a semi-weekly paper published by the Associated Student Body through an elected staff, on the merit basis, is an exponent of the student life and activities of the University.

The Campus is a charter member of two Intercollegiate Press Associations, the Southwestern Press Association, which conducts a weekly news service and the Western Press Association. Delegates from The Campus staff attended the annual conventions of both these associations during the year 1921-22. Moreover the editorial room of The Campus is one of the three points west of the Mississippi River from which collegiate news is distributed.

LA LETRA

La Letra, The University Annual, is published by a special staff chosen by the student body and is devoted to the features of the University life for the year.

The Annual comes from the press about June First of each year, and is eagerly awaited by all those connected with the University.

COLORS

The official colors of the University of Redlands are Maroon and Silver Gray.

ATHLETIC PARK

The athletic park contains a 220-yard straight-away and an oval four-lap track, both in excellent condition. Inside the oval the football field is laid out.

To the east of the football field a first-class baseball diamond has been laid out and the entire field enclosed.

College of Liberal Arts

ADMISSION REQUIREMENTS

An applicant to be admitted, in full standing, to the Freshman Class of the University must meet the following conditions:

First—He must file with the University a certificate of graduation from an approved high school or academy showing in detail the work which he completed for graduation and the record made in the same. This certificate must show at least fifteen units of work completed. Blanks for this purpose may be had by addressing the University.

Second—Of the fifteen units, at least twelve must be of recommended grade.

Third—Of the fifteen units at least twelve must be from the subjects numbered 1 to 34 on page 28 of this bulletin. These twelve must include the following: English 2 units, Elementary Algebra 1 unit, Plane Geometry 1 unit, A Laboratory Science 1 unit and United States History and Civics 1 unit.

It is quite desirable that two of the twelve be from some foreign language. No credit will be given for one unit in a foregn language unless this unit is later supplemented by the equivalent of an additional unit in the same language.

Students who are not able to furnish the certificate of graduation may meet the other requirements for admission by the passing of satisfactory examinations.

LIST OF ADMISSION SUBJECTS

1. English, Elementary	2
2. English, Advanced (3rd yr.)	1
3. English, Advanced (4th yr)	1
4. Algebra, Elementary	1
5. Algebra, Intermediate	½
6. Plane Geometry	1
7. Solid Geometry	½
8. Plane Trigonometry	½
9. Ancient History	1
10. Mediaeval and Mod. His.	1
11. English History	1
12. History and Gov't of U. S.	1
13. Economics	½, 1
14. Latin, Element. & Caesar	2
15. Cicero & Latin Comp.	1
16. Vergil & Latin Comp.	1
17. Greek, Elem. & Xenophon	1
18. Homer and Greek Comp	1
19. German, Elementary	2
20. German, Intermediate	1
21. German, Advanced	1
22. French, Elementary	2
23. French, Intermediate	1
24. French, Advanced	1
25. Spanish, Elementary	2
26. Spanish, Intermediate	1
27. Spanish, Advanced	1
28. Physics	1
29. Chemistry	1
30. Botany	1
31. Zoology	1
32. Physiology	1
33. Phisical Geography	1
34. General Science	1
35. Free-hand Drawing	½, 1
36. Mechanical Drawing	½, 1
37. Music	½, 1
38. Vocational Subjects	1, 2, 3

Students failing to satisfy any of the above requirements for admission may upon recommendation of the credential committee be received on condition, but such condition must be removed before said students are admitted to the Junior Class.

DEGREES

In the College of Liberal Arts the University of Redlands offers courses leading to the Bachelor of Arts degree with the opportunity of selecting a major from any one of many departments.

In the College of Fine Arts the University of Redlands offers courses in Organ, Piano, Violin and Voice for the Bachelor of Music degree and in Art for a Certificate of Proficiency.

ADVANCED STANDING

Credit without examination for work done in other institutions will be granted only upon receipt of a satisfactory certificate mailed to the University of Redlands by the proper official of the institution in which the work was done.

A student from another institution of equal scholastic rank may be admitted to advanced standing in the University upon presentation to the committee having charge of credits satisfactory evidence of having completed the work claimed, together with a certificate of honorable dismissal.

MATRICULATION AND REGISTRATION

Each student desiring to register is required to present himself to the personal data committee. This committee will advise with him and direct him to the registration committee.

At the time of registration each entering student will be given a physical examination for the purpose of determining his general health and his individual needs. These examinations will be scheduled for certain hours during registration days. The failure of any student to appear for the examination at the time set will subject him to a fee of two dollars for late examination.

Students are urged to register on the designated registration days. Absences from classes are counted from the day on which instruction begins. No registration is complete until fees due the institution are paid or arranged for. Any student wishing to discontinue a course or in any way change his registration will advise with the officers of administration.

Registration for the first semester 1922-23 will be held Monday and Tuesday, September 18 and 19. A fee of one dollar will be charged for any registration after Wednesday, September 20.

Students enrolled for the first semester and registering for the second semester will be expected to register during the month of January before the examinations for the first semester begin. An extra fee of one dollar, for late registration, will be charged the student whose registration is not completed during this period. No registration is complete until all fees due the University are paid or arranged for.

FEES FOR TARDINESS

Fee for late registration	$1.00
Fee for late physical examination	2.00

GENERAL REQUIREMENTS AND REGULATIONS

Persons not candidates for any degree may be admitted to the University as special students, provided they are of mature age and give the faculty satisfactory evidence that they are properly qualified to do work creditably and with profit.

Special students may select their studies without reference to the sequence of courses, but otherwise are subject to the general regulations governing the student body. Such students may at any time become candidates for degrees by conforming to the regular requirements.

No student who has registered for regular work can change his status to that of a special student without permission from the faculty.

A student withdrawing from the University before the work of any semester has been completed shall thereby forfeit all credits for that semester; but at the discretion of the instructor such student, upon returning to college, may resume a subject at the point dropped and carry it to completion.

No regular student in the Freshman or Sophomore class is allowed to carry more than 18 hours or less than 12 hours, except by special action of the faculty.

No regular student of the Junior or Senior class is allowed to carry more than 16 hours or less than 12 hours without special permission of the faculty.

Any student to be eligible to represent the university in forensics, dramatics, as a member of a glee club, or as an officer, or as manager of an activity, or in any other capacity:

1. Must be a regular student (except as authorized in "4".)
2. Must have earned 12 semester hours and fifteen credit points during the preceding semester (except as this conflicts with "3".)
3. Must be passing in 12 hours during the current semester. In the case of debates, plays, and glee club trips, eligibility in this particular will be determined one month prior to the time scheduled for the event.
4. Upon recommendation of the one having the activity in charge a special student may, by vote of the faculty, be allowed to participate.
5. These eligibility rules shall not apply to athletics, eligibility in this case being determined by rules of the Intercollegiate Conference.

Each student must take a final examination before receiving credit in any course, except that in the final semester a student completing the necessary work for a degree shall not be required to take an examination in those courses in which his daily grade for that semester is "B" or above.

SCHOLARSHIP GRADING

The following system of grading and awarding of points is used in the University of Redlands:

A denotes an excellent grade of work.
B denotes a good grade of work.
C denotes average work.
D denotes passing, but poor grade of work.
E denotes conditioned.
F denotes failed.
I denotes incomplete.
W denotes withdrawn.

In addition to the 126 semester hours required for graduation, 126 points shall likewise be required to be obtained on the following basis:

Each semester hour of grade A shall command 3 points.
Each semester hour of grade B shall command 2 points.
Each semester hour of grade C shall command 1 point.
Each semester hour of grade D shall command 0 point.

Note:—Any student who in the first half of any semester is doing such a low grade of work in any subject that even a good grade of work for the remainder of the semester would not give him a credit for the course, may be dropped from the course with a grade of failure, upon recommendation of the professor and by action of the faculty.

A condition in any course may be removed before the course is again offered in accordance with the requirements made by the instructor concerned. A fee of $2.00 is charged for each extra or special examination, except that if a student is forced to be absent from all the examinations of the semester, the fee for the entire number shall not exceed $5.00.

Members of the Senior class who are candidates for graduation are required to remove all "incompletes" and "conditions" in courses necessary for graduation before the close of the spring vacation.

SCHOLARSHIPS—STUDENT AID

A number of scholarships have been endowed by friends of the University, the income derived from such funds being devoted to defraying the tuition fees in the College of Liberal Arts of the students to whom they are assigned. These scholarships are awarded to those students who are in need of aid in securing a college education. In the awarding of these scholarships, the grade of work which has been done and is being done by the student is taken into consideration. A student receiving such aid is expected to conduct himself in a way which is for the best interest of the institution. He may be asked to render some light service to the institution which will not interfere with his studies.

The University aids some students by giving them work about the campus and in the buildings and co-operates with students in securing work about the city. Students who are thus helped are expected to give value received and to co-operate in maintaining a good spirit in the University.

DORMITORIES, ROOM AND BOARD

All students who are not living at home with their families or immediate relatives are required to live in the college dormitories, unless excused by the Faculty. The dormitories are of re-enforced concrete construction, fire proof, equipped with all the modern conveniences and well furnished. Special attention has been given to ventilation in keeping with the climatic conditions in Southern California. In each dormitory there is a well equipped laundry with stationary tubs, electric irons and other conveniences for the use of the house. No electric irons are allowed in the students' rooms. Provision is made for the social life of the students in the reception halls, the club rooms and the recreation rooms. Each building is in charge of a competent house-mother or proctor, who takes a personal interest in the individual student. It is the purpose of the management to approximate as nearly as possible home life in these dormitories.

A reservation for any academic year may be made at any time by depositing ten dollars with the University.

This deposit will be retained during the year as a breakage fee. The balance will be refunded at the close of the year. Should a student cancel the reservation the fee will be refunded provided such cancellation is made before September first of that year.

EXPENSES

It is believed that the necessary expenses at the University of Redlands are as low as is consistent with the high character of the work done. The following schedule will serve to indicate the principal items:

Matriculation Fee: Payable once, at time of first registration:	
College of Liberal Arts or Fine Arts	$5.00
Tuition per semester, payable in advance:	
College of Liberal Arts	$57.50
Registration Fee per Semester:	
College of Liberal Arts or Fine Arts	$2.50
Graduation Fee	$5.00
Laboratory Fees:	
Chemistry, for each course, except as noted in description of courses, per semester	$8.00
Botany, for each course, per semester	$2.00 to $8.00
Zoology, for each course, per semester	$2.00 to $4.00

A deposit of five dollars ($5.00) is required in

Chemistry to cover breakage. This deposit, less cost of breakage, is refunded at the end of the year.

In some of the courses in Botany a small breakage fee is charged. See description of courses.

No breakage deposit is required in Physics, but an account is kept of all breakages and a charge is made therefor.

Students carrying not more than five hours of work will be charged one-third of the regular tuition fee; those carrying from six to ten hours inclusive, will be charged two-thirds of the regular fee, and those carrying more than ten hours will pay the full fee.

Students preparing for the ministry or special religious work, and children of ministers and missionaries will be granted a discount of 50 per cent on tuition fees in the College of Liberal Arts.

For charges in case of special examination see page 32.

Special attention is called to the fact that the charge for tuition includes gymnasium, library and all incidental fees other than the matriculation, registration and graduation fees, and those pertaining to laboratory courses.

All fees are payable in advance for the semester. No student is entitled to admission to class until the fees for that course have been paid or arranged for. There will be no refund of fees unless the student is forced to leave the university on account of illness, in which case a fair adjustment will be made.

DORMITORIES

It is the purpose of the Board of Trustees of the University of Redlands to furnish board and room to the students at a rate as low as is consistent with proper living conditions. They feel that the accommodations should be up to standard in every way. The surroundings should be pleasant. The food should be wholesome and there should be a sufficient supply. The prices have been fixed with the intent that the bare running expenses of these departments shall be met. These prices are subject to change should there be any decided change in living costs.

The majority of the rooms in the dormitories are arranged for two occupants. The beds are single and provided with mattresses six feet two inches by three feet and pillows twenty-three by thirty inches.

Each student is expected to furnish bed covers, linen, towels, etc.

All dormitories have baths on each floor. In the women's dormitories there are some rooms with bath adjoining.

ROOM RENT

Room without bath adjoining, each occupant, per semester	$30.00
Room with bath adjoining, each occupant, per semester	$42.50

In one of the dormitories for women there are a few less desirable rooms which are rented for Twenty Dollars per semester for each occupant.

Room rent is payable by the semester in advance. If the student is forced to leave the university before the end of the semester on account of illness, a fair adjustment of the rent will be made. The university reserves the right to dismiss from the dormitory, without rebate, any student who has shown himself a disturbing or undesirable character.

TABLE BOARD

In the dormitories for women the price for table board is twenty-four dollars per month. If payment for the semester is made in advance, a discount of three percent is allowed.

In the dormitories for men the dining room is run on the co-operative plan by an organization of the men known as the "Co-operative Club." The cost for table board under this arrangement is approximately twenty-five dollars per month. The club requires that payment for table board be made in advance; accordingly each member is required to make a deposit of twenty-five dollars at the time of registration, and at the beginning of each calendar month thereafter such payment as agreed upon by the club. At the end of the school year a final settlement is made, and any surplus on hand is refunded to the individual members pro rata.

The dormitories will be open for students for the academic year 1922-23 September 16 and will be closed at the end of the year June 21.

The dormitories will be closed during the Christmas vacation from Saturday evening, December 16th, to Monday, January 1st, and during the Spring vacation from Saturday evening, March 24th, to Saturday evening, March 31st, unless a number of students desire to remain, in which case arrangements must be made with those in charge of the dormitory at least ten days before the beginning of the vacation period.

The necessary expenses, including room, board, tuition, books, will average about $400 to $450 for the year.

LIBRARY

The library of 11,000 volumes and several thousand unbound magazines and pamphlets, contains especially well selected works on all subjects included in the curriculum.

The library is in a fire proof building and donors may present their collection, with the assurance that they will be protected and preserved.

Material in printed or manuscript form or matters of genealogy and local history are especially welcome.

Through the courtesy of the A. K. Smiley Public Library of Redlands, with 40,000 volumes, the University Library is a depository, thruout the college year, for such books as the different departments may from time to time require.

THE MUSEUM

The departments of Geology and Biology are fortunate in the possession of a very large and rare collection of minerals, shells, fossils, insects and birds. These specimens are being temporarily housed in the Administration Building. Among the more important exhibits are the collection of shells given by Mrs. H. A. Bates; the collection of minerals and fossils given by Dr. J. D. Easter; some valuable duplicate fossils of the La Coe Collection of the Smithsonian Institute; an indefinite loan from the City of Redlands of the Mrs. Francis A. L. Smith collection of shells, fossils, and birds from all parts of the world and a collection of California birds, minerals and fossils obtained from the California College formerly at Oakland. The Reverend Edwin MacMinn, D. D., recently presented to the University a collection of minerals and fossils comprising one of the largest and most valuable privately owned mineralogical exhibits in the United States. The University also has the permanent use of the collection of the late Professor George Robertson and of the Sharp Collection of insects indigenous to the Philippine Islands.

PRIZES

The following prizes have been offered to the students of the University for the year 1922-23 to be awarded on Commencement Day:

1. For the best original oration delivered by a regular student of the University of Redlands at the annual Oratorical Contest, on the third Friday of January, a gold medal or a prize of $25 is offered by the President of the Board of Trustees of the University, Mr. Mattison B. Jones, of Los Angeles.

2. For the best extempore speech delivered by a regular student of the University at the annual Contest in Extempore Speaking on the first Friday in December, a prize of $25 is offered by Mr. W. H. Fowler, of Los Angeles, member of the Board of Trustees.

3. For general efficiency in college work, including scholarship and the various student activities a first prize of $15 is offered by Prof. J. W. Kyle of the University.

4. For the best record in scholarship thru the year made by any regular student of the University ranking as sophomore, the faculty have established an annual scholarship, providing free tuition in the Liberal Arts College thru the junior year, or an equivalent amount in the Fine Arts College. This shall be known as the Faculty Junior Scholarship.

ACCREDITING

The work of the University of Redlands will be accepted by the University of California or Leland Stanford, Jr., University for admission to Sophomore, Junior, Senior or Graduate standing.

Harvard, Yale, and Columbia Universities have accepted our graduates to graduate standing without condition, as candidates for the Master's Degree.

Requirements for Graduation

Candidates for degrees will be required to recognize the sequence of courses in selecting their work unless excused by the faculty.

No student shall be permitted to graduate from the College of Liberal Arts of the University who has not credit for at least 126 hours and 126 credit points, and who has not taken at least one year of the regular work at the University.

When a student has completed ninety-six (96) hours of college work, the last thirty of which have been done in the University of Redlands, eighteen of which must be from upper division courses, and has satisfied the requirements for the Bachelor of Arts degree, he will be granted this degree upon the satisfactory completion, in any approved college or university of:

(1) One full year in Dentistry, Engineering, Law or Medicine, or

(2) The completion of the courses in Library or Nursing.

A student to be admitted to Junior standing must have satisfactorilly completed the following requirements:

(a) Including the 15 units of entrance credit, each high school unit being regarded as 3 semester hours, a total of 111 semester hours shall be required for admission to Junior standing, and 66 of these must be taken in college.

(b) The required 111 hours shall include the following minimum specifications:

English, 18 hours including English 1 and 2, unless the student shall pass a satisfactory examination in English 1 and 2.

Foreign Language, 14 hours to be offered in not more than two languages and not less than six hours in any one.

Mathematics, 12 hours at least three of which must be taken in college.

History, 12 hours at least six of which must be taken in college. (Six of the 12 hours may by permission be postponed until the Junior or Senior year.)

Laboratory Science, 14 hours at least eight of which must be taken in college.

Physical Education, 4 hours all to be taken in college.

Hygiene, 2 hours to be taken in college.

Of the remaining 60 hours required for graduation, all shall be elective except three (3) hours of Psychology.

In addition to the above requirements for the Bachelor of Arts Degree, the candidate must satisfy the conditions for a major and a minor as defined below.

Every candidate for a degree is required to select a major and signify the same to the Registrar and the head of the department in which he selects his major. Such selection may well be postponed until the Sophomore year but not later than that time, without special permission.

A major shall consist of from 20 to 30 hours in one department, all to be taken from courses classified as upper division courses by the department. Students will not be permitted to take more than 30 hours of upper division work in any one department.

As soon as a student has decided on a major he shall choose his minor in conference with the head of the department in which he has chosen his major.

A minor shall consist of at least nine hours from courses which may be counted toward a major in any department.

At least thirty-six hours of the courses carried during the Junior and Senior years shall be chosen from courses numbered 100 or above.

Description of Courses

The scheme of numbering the courses scheduled below and adopted by the University of Redlands is as follows:

Courses numbered from 1 to 99 are Lower Division Courses and are open to Freshmen and Sophomores and courses numbered 100 and above are Upper Division Courses and are open to Juniors and Seniors only, except by special permission of the Department.

When a course for the second semester is marked "continuation" of the course just preceding it, it is to be understood that credit for the work of the first semester will be withheld until the student has successfully completed the work of the second semester in this continuation course.

ASTRONOMY

Edgar B. Van Osdel

101-102. DESCRIPTIVE AND GENERAL ASTRONOMY

A study of the heavenly bodies, their constitution, laws of motion, physical properties and the processes by which man discovers these facts.

Prerequisite, Mathematics 1 and 2.

Three hours, both semesters.

BIBLICAL STUDIES

1. The Life of Jesus. Study is made of the historical situation, sources of the Synoptics, together with the religious development and characteristic traits of Jesus.

Three hours, first semester.

2. The Social and Ethical Teachings of Jesus and their application to Modern Life.
Three hours, second semester.

3 and 4. The Apostolic Age. New Testament Times; expansion of Christianity; distinguishing features of the Pauline Epistles-Galatians, Corinthians and Romans. Text, lectures, maps and reports.
Three hours per week, both semesters.

101, 102. Introduction to Old Testament. A study of the origin, historical development, social messages, religious significance and permanent value of the Old Testament.
Three hours, both semesters.

BOTANY

Frederick H. Billings

Students expecting to major in Botany should take Zoology 1 and 2 as a required minor as early as possible.

1. General Morphology of Plants. A general survey of the vegetable kingdom including study of both gross and microscopical structure of plants, their methods of reproduction and their phylogeny.
Two lectures or recitations and two laboratory periods first semester.
Laboratory fee, $3.00 per semester; breakage deposit, $1.00.

2. General Morphology of Plants. Continuation of Botany 1.
Two lectures or recitations and two laboratory periods, second semester.
Laboratory fee, $3.00 per semester.

4. Spermatophytes. Types of seed plants including trees, shrubs and grasses with many of the commoner herbaceous plants will be studied largely from the standpoint of classification.
   Three laboratory periods, second semester.
   Prerequisite, 1 and 2.
   Laboratory fee, $2.00 per semester; key deposit, 25 cents.

101. Bacteriology. A general course including the preparation of culture media, growth and morphology of bacteria, their staining reactions, physiological activity and economic importance.
   Two lectures or recitations and three laboratory periods first semester.
   Prerequisites, Botany 1 and 2, (or Zoology 1 and 2) and either matriculation Chemistry or Chemistry 1 and 2.
   Laboratory fee, $8.00 per semester; breakage fee, $2.00.

*103. Plant Physiology. An experimental investigation into how plants grow, the function of their organs and their behavior under various environmental conditions.
   One lecture or recitation and two laboratory periods, first semester.
   Prerequisites, courses 1 and 2.
   Laboratory fee, $5.00 per semester; breakage fee, $1.00.

105. Thallophytes. General morphology, reproduction and relationships of the lower orders of plants including algae and fungi. Species that cause disease in plants will receive special consideration.

One lecture and two laboratory periods, first semester.
Prerequisite, courses 1 and 2.
Laboratory fee, $3.00 per semester; key deposit, 25 cents.

106. Thallophytes. Continuation of Botany 105.
One lecture and two laboratory periods second semester.
Laboratory fee, $3.00 per semester.

*107. Plant Anatomy. Microscopic structure of plant tissues including histological technique as embedding, sectioning and staining. Each student will prepare his own set of slides illustrating essential plant structures.
Three laboratory periods, first semester.
Prerequisite, courses 1 and 2.
Laboratory fee, $5.00 per semester; breakage deposit, $1.00.

*108. Plant Anatomy. Continuation of Botany 107.
Three laboratory periods, second semester.
Laboratory fee, $5.00 per semester.

*Not offered in 1922-23.

CHEMISTRY

S. Guy Jones

Edgar B. Van Osdel

1. ELEMENTS OF CHEMISTRY
An introductory course intended for those who do not offer matriculation Chemistry.
Two recitations and two laboratory periods, first semester.

2. Elements of Chemistry

Continuation of Chemistry 1.

Two recitations and two laboratory periods, second semester.

3. General Inorganic Chemistry and Qualitative Analysis

An advanced course in general and theoretical chemistry, accompanied by a laboratory course in qualitative analysis. Analysis for positive ions, first semester. Analysis for negative ions and determination of the composition of natural and commercial products, second semester.

Prerequisite, Matriculation Chemistry or Chemistry 1 and 2.

Two recitations and two laboratory periods, first semester.

4. General Inorganic Chemistry and Qualitative Analysis

Continuation of Chemistry 3.

Two recitations and two laboratory periods, second semester.

101. Quantitative Analysis

General methods of Gravimetric and Volumetric Analysis.

Prerequisite, Chemistry 3 and 4.

One recitation and three laboratory periods, first semester.

102. Quantitative Analysis

Continuation of Chemistry 101.

One recitation and three laboratory periods, second semester.

105. INORGANIC PREPARATIONS

Study of the accepted methods of preparing the principal inorganic compounds.
Prerequisite, Chemistry 3 and 4.
Three laboratory periods, first semester.

106. INORGANIC PREPARATIONS

Continuation of Chemistry 105.
Three laboratory periods, second semester.

107. STOICHIOMETRY

A course in Chemical Arithmetic, which should accompany or follow Chemistry 101-102.
One period, first semester.

108. STOICHIOMETRY

Continuation of Chemistry 107.
One period, second semester.

109. ADVANCED QUANTITATIVE CHEMISTRY

An advanced course in quantitative manipulations and determinations. The aim of the course is to obtain skill in quantitative manipulation and a knowledge of methods which will enable the student to quickly and easily become proficient in any of the several lines of quantitative analytical Chemistry.
Prerequisite, Chemistry 101 and 102.
Three laboratory periods first semester.

110. ADVANCED QUANTITATIVE ANALYSIS

Continuation of Chemistry 109.
Three laboratory periods, second semester.

111. ORGANIC CHEMISTRY

A study of the compounds of Carbon. Laboratory

work in the preparation of organic compounds and the study of their properties.
Prerequisite, Chemistry 3 and 4.
Two recitations and two laboratory periods, first semester. Mr. Van Osdel
Laboratory fee $10.00.

112. ORGANIC CHEMISTRY

Continuation of Chemistry 111.
Two recitations and two laboratory periods, second semester. Mr. Van Osdel
Laboratory fee, $10.00 per semester.

113. PHYSICAL CHEMISTRY

A course in the fundamentals of Physical Chemistry. The study of the properties of gases, liquids, solids and solutions, and of chemical equilibrium and kinetics; also thermo- and electro-chemistry and atomic structure.
Prerequisite, Chemistry 3 and 4, 101 and 102.

Two recitation-lecture periods and two laboratory periods, first semester. Mr. Van Osdel

114. PHYSICAL CHEMISTRY

Continuation of Chemistry 113.
Two recitation-lecture and two laboratory periods, second semester. Mr. Van Osdel

ECONOMICS

H. C. Tilton

1. SOCIAL ADJUSTMENT

An elementary course dealing with the problems of college and community life.
Elective for Freshmen only.
Two hours, first semester.

2. INDUSTRIAL DEVELOPMENT

A historical perspective intended as a preparation for the study of economics.
Elective for Freshmen only.
Two hours, second semester.

21. INTRODUCTORY SOCIOLOGY

The origin, principles and problems of society.
Freshmen are not admitted.
Three hours, first semester.

22. INTRODUCTORY SOCIOLOGY

Continuation of Economics 21.
Three hours, second semester.

31. INTRODUCTORY ECONOMICS

A general course considering the basic principles of economics.
Freshmen are not admitted.
Four hours, first semester.

32. INTRODUCTORY ECONOMICS

Continuation of Economics 31.
31 and 32 are prerequisites to all advanced courses in economics.
Four hours, second semester.

*122. SOCIAL ORGANIZATION

Psychological forces in the organization of society, with special reference to democratic institutions.
Prerequisite, Philosophy 101.
Three hours, second semester.

*131. MONEY AND BANKING

Principles of money; recent monetary history; func-

tions of banks; development of the United States system of banks; present problems.
Three hours, first semester.

133. LABOR PROBLEMS

History and development of organized labor, labor problems, and labor legislation.
Three hours, first semester.

134. INTRODUCTION TO PUBLIC FINANCE

The theory and method of taxation; management and expenditure of public funds; public debts.
Three hours, second semester.

135. SOCIALISM

Historical survey, followed by a critical study of recent discussions of Socialism.
Three hours, first semester.

*137. BUSINESS ORGANIZATION

The course deals with the nature and history of corporations and their significance in modern life. Attention is given to the problems arising from the growth of corporations and combinations, and to various remedies proposed.
Three hours, first semester.

*138. BUSINESS ADMINISTRATION

The industrial plant, location, equipment, management, marketing of products, etc.
Three hours, second semester.

140. HISTORY OF ECONOMIC THOUGHT

A review of the development of economic doctrines and their influence on political and social action.

Senior elective. Majors in Economics.
Three hours, second semester.
*Not given in 1922-23.

ENGINEERING

Herbert E. Marsh

A complete technical course in engineering is not offered at present. The following subjects are for the benefit of those who desire to complete their preparation for this profession after having obtained a broad cultural basis for the same.

1. Mechanical Drawing

Use and care of drawing instruments, free-hand and mechanical lettering, exercises in projection and simple drawing. Drawing accurately to scale plans, elevations, and sections from student's own measurements and free-hand sketches of simple machine parts.
Prerequisite, Plane Geometry.
Three drawing periods, first semester.

2. Mechanical Drawing

Continuation of Engineering 1.
Three drawing periods, second semester.

3. Topographical Drawing

This course is supplementary to Engineering 6, and consists of a study of the forms and practice in the execution of the conventional alphabets used in lettering topographical maps and the individual conventional signs.
Prerequisite, Mechanical Drawing.

Sophomore course.
Three two-hour drawing periods, first semester.

5. SURVEYING

The use, care and adjustment of the Surveyor's instruments. Field work; chain and tape surveying, transit surveys, leveling, curves, etc.
Sophomore course.
Prerequisite, Mathematics 2.
One recitation and two field (or drawing) periods first semester.

6. SURVEYING

Continuation of Engineering 5. Applied particularly to topographical surveying and mapping.
Sophomore course.
One recitation and two field (or drawing) periods, second semester.

7. DESCRIPTIVE GEOMETRY

A study of the principles which underlie orthographic projection, keeping in mind the importance of the ability to analyze a problem into its component parts and to reason from a given set of conditions to a required set of conclusions.
Prerequisite, Engineering 1 and 2.
Three drawing periods, first semester.

8. DESCRIPTIVE GEOMETRY

Continuation of 7, including single and double curved surfaces, shades and shadows, and the elements of perspective and isometric projection.
Three drawing periods, second semester.

101. APPLIED MECHANICS

A study of the laws of statics and dynamics and their application to the various branches of engineering.

Prerequisites, Physics 101, and Mathematics 101 and 102.

Three hours, first semester.

102. APPLIED MECHANICS

Continuation of Engineering 101.

Three hours, second semester.

104. GRAPHIC STATICS

A study of methods of representing forces graphically and the application of the same in the determination of stresses in structures.

Prerequisite, Engineering 101, 102.

Recitation two hours and one drawing period, second semester.

103. MECHANICS OF MATERIALS

A study of mechanics of materials including elastic and ultimate strength, and elastic and ultimate deformations, cases of simple stress, theory of beams, columns, and shafts; also a study of the principles of reinforced concrete and their application in various structures.

Prerequisite, Engineering 101 and 102.

Four hours, first semester.

ENGLISH

Egbert Ray Nichols
William T. Darby
Mary Louise Todd

Twenty-four hours in addition to the hours in courses

1, 2, 51 and 52 are required of students majoring in English. All courses in Composition and Literature numbered from 101 to 200 may be counted toward a major. Courses 51, 52 and 112 are required of all English majors.

1 AND 2. RHETORIC AND COMPOSITION

A study of composition, oral and written, with regular practice in writing and speaking.
Freshmen course.

103 AND 104. ADVANCED COMPOSITION

A course in composition designed for those who wish to continue writing work beyond the Freshmen year. A regular schedule of writing is followed. Longer themes are required and more attention is given to criticism that in English 1 and 2. English 103 and 104 may be taken two years with full credit for each year.
Sophomore-Junior course.
Three hours, both semesters.

51 AND 52. HISTORY OF ENGLISH LITERATURE

The development of English Literature from Beowulf to the present time.
Required of students majoring in English. Either semester elective.
Three hours, both semesters.

58. 19TH CENTURY AMERICAN LITERATURE

A survey course in the major poets and prose writers of America with a study of representative works.
Elective.
Three hours, second semester. Miss Todd.

109. SHAKESPEARE

(a) An intensive study of three plays of Shakespeare, including Hamlet or Othello.
(b) A reading course in Shakespeare's plays up to the year 1600. A chronological order is followed. Collateral reading on the life of Shakespeare and his time.
Sophomore-Junior course.
Three hours, first semester.

110. SHAKESPEARE

(a) As in English 109.
(b) A reading course in Shakespeare's plays subsequent to the year 1600. A chronological order is followed. Thesis required.
Three hours, second semester.

112. CHAUCER

A survey of the life and writings of Geoffrey Chaucer with special attention to the Canterbury Tales.
Required of English majors.
Three hours, second semester.

133. ENGLISH PROSE OF THE EIGHTEENTH CENTURY

The reading of prose selected from the works of Defoe, Swift, Addison, Steele, Johnson, Goldsmith, and Burke.
Three hours, first semester.

141. MILTON

A study of the life and writings of Milton, with special emphasis upon Paradise Lost.
Three hours, second semester.

151 AND 152. THE NOVEL

A study of the origin and development of the novel as a distinct type of fictional narrative. The course will include the reading of selected representative novels from Richardson to Arnold Bennett. Class reports and informal discussion.
Three hours, both semesters.

154. THE NOVELS OF CHARLES DICKENS

A reading course with lectures upon Dickens' life and upon his methods and style. Frequent reports and a thesis are required.
Sophomore, Junior, Senior course.
Three hours, second semester.

156. STEVENSON

A study of the author's representative works in romance, essay, and criticism. Lectures, collateral reading, and class discussion.
Sophomore-Junior-Senior course.
Two hours, second semester.

163. NINETEENTH CENTURY POETRY

The reading of selected poems by Shelley, Keats, Byron, Tennyson and Browning, with a comparative study of their poetic tendencies.
Three hours, first semester.

165. TENNYSON

A study of the life and writings of Alfred, Lord Tennyson. Thesis required.
Three hours, first semester.

166. BROWNING

A study of the life and writings of Robert Browning. Thesis required.
Three hours, second semester.

167. MAJOR POETS OF THE ROMANTIC REVIVAL

A study of the Lake Poets with special emphasis upon Wordsworth.
Two hours, first semester.

174. NINETEENTH CENTURY PROSE

A study of selected masterpieces with special emphasis upon the works of Lamb, DeQuincey, Macaulay, Carlyle, Arnold, and Stevenson.
Three hours, second semester.

181. MODERN DRAMA

A survey course in Modern Continental Drama with outside reading and reports, including Ibsen, Bjornson, Strindberg, Maeterlinck, Rostand, Brieux, Hauptman, Suderman, Schnitzler, Echegaray, d'Annunzio, and many others.
Three hours, first semester.

182. MODERN DRAMA

A survey course in Modern English, Irish, and American Drama with outside reading and reports and thesis, including Pinero, Jones, Galsworthy, Bennett, Barker, Synge, Yeats, Gregory, Howard, Thomas, Mackaye, and many others.
Three hours, both semesters.

183-184. MASTERPIECES OF DRAMA

A comparative literature course in drama beginning with the Greek comedies and tragedies and follow-

ing the course of the drama chronologically down to Ibsen and Modern Drama.
Three hours, both semesters.

COURSES IN PUBLIC SPEAKING

191. ARGUMENTATION AND DEBATE

A practice course in debating and extemporaneous speaking with some attention given to the theory of argumentation and debates.
Three hours a week, first semester.

192. Continuation of 191.

Three hours, second semester.

193. ORATORY AND PUBLIC SPEAKING

A study of the principles of writing and delivering speeches, and orations.
Three hours a week, first semester.

194. Continuation of 193.

Three hours, second semester.

195. READING AND EXPRESSION

An elementary course in Expression dealing with the fundamentals of voice culture and interpretive reading.
—— hours, first semester.

196. Continuation of 195.

—— hours, second semester.

DESCRIPTION OF COURSES

FRENCH

Edith A. Hill

1. First Year French

The fundamental principles of grammar; pronunciation by means of phonetic symbols; training in oral and written French.

Four hours, first semester.

2. First Year French

Continuation of French 1.

Four hours, second semester.

3 and 4. Second Year French

Rapid review of grammar. Considerable opportunity is given for speaking the language, as but little English is used in the class room. Plays, novels and short stories of some of the greatest modern writers will be studied during the year.

Three hours, both semesters.

5 and 6. Conversation and Composition Course

Facts of daily life discussed. Designed to train students to speak and write the language with some facility.

Prerequisite, 1-2.

Two hours, both semesters.

11. French

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, phonetic transcription, etc.

Prerequisite, 1.

Three hours of laboratory, one hour credit, one semester.

101 AND 102. FRENCH LITERATURE OF THE 19TH CENTURY.

Lecture and reading course. Conducted entirely in French.
Prerequisite, 1-4.
Three hours, both semesters.
Omitted 1922-23.

103 AND 104. FRENCH LITERATURE OF THE 17TH CENTURY

Lecture and reading course. Conducted entirely in French. The principal authors of the classical period, Corneille, Moliere, Racine, La Fontaine, Boileau, etc., will be studied.
Prerequisite, 1-4.
Three hours, both semesters.

105 AND 106. FRENCH LITERATURE OF THE 18TH CENTURY

Selections from Voltaire, Rousseau, Montesquien, etc. Outside reading and reports. Conducted in French.
Prerequisite 1-4.
Two hours, both semesters.

107 AND 108. OUTLINE COURSE IN THE HISTORY OF FRENCH CIVILIZATION

This course is intended to furnish a background to the study of French literature. Conducted in French.
Prerequisite, 3-6.
Two hours, both semesters.

109 AND 110. ADVANCED GRAMMAR AND COMPOSITION

Required of major students.
Prerequisite, 3-6.
Two hours, both semesters.

GEOLOGY

Miss Moore

101 AND 102. GENERAL GEOLOGY

Lectures, recitations, laboratory and field work. The study will include the salient and economic features of the science, giving a systematic and comprehensive knowledge of the most important teachings of Geology. The course will cover (a) Dynamical, (b) Structural, and (c) Historical Geology. Attention will be given to the Petrology and Crystallography of the common rocks and minerals.
Prerequisite, Botany 1 and 2 and Zoology 1 and 2.
Two lecture hours and one laboratory period of two hours, both semesters.

GERMAN

Frank H. Reinsch

1. FIRST YEAR GERMAN

Elements of German grammar. Oral and written composition. Reading of modern prose and plays.
Four hours, first semester.

2. CONTINUATION OF COURSE 1

Four hours, second semester.

3 AND 4. SECOND YEAR GERMAN

The Classical Period. Life and works of Lessing,

Goethe, and Schiller. Reading, discussion and reports.
Three hours, both semesters. Prerequisite, 1-2.

5 AND 6. GERMAN CONVERSATION AND COMPOSITION

Oral and written exercises based on every day life. Mastery of forms and idioms leading to practical command of the language.
Two hours, both semesters. Prerequisite, 1-2.

101 AND 102. THE NOVEL

Hauff, Ludwig, Scheffel, Freytag, Storm, Heyse, Sudermann, Frenssen, Mann and others. Reading and discussion.
Three hours, both semesters. Prerequisite, 1-4.

103 AND 104. GERMAN LITERATURE

A survey of German literature and its relations to the literatures of other nations from the twelfth century to the present. Reading of typical prose and poetry of each period.
Three hours, both semesters. Prerequisite, 1-4.

107 AND 108. THE DRAMA

Kleist, Grillparzer, Hebbel, Subermann, Hauptmann, Schonherr, Schnitzler and others. Reading and discussion.
Three hours, both semesters. Prerequisite, 1-4.

109 AND 110. SCIENTIFIC GERMAN

Readings chosen from the fields of Chemistry, Physics, Biology, Industry and Commerce. Collat-

eral reading of texts and technical articles of particular interest to the student.
Three hours, both semesters. Prerequisite, 1-4.

NOTE—In addition to the courses scheduled the department will cooperate with students desiring to major in German by directing individual study as follows:

105 AND 106.	ADVANCED COMPOSITION	Four hours.
121 AND 122.	GOETHE, LIFE AND WORKS	Four hours.
131.	HEINE, LIFE AND WORKS	Two hours.
136.	ROMANTIC DRAMA	Three hours.
151.	MIDDLE HIGH GERMAN	Three hours.
162.	GOTHIC	Three hours

GREEK

James W. Kyle

1. ELEMENTARY GREEK: BALL'S ELEMENTS OF GREEK
Gospel of Luke for sight reading.
Book I. of Xenophon's Anabasis.
Four hours, first semester.

2. ELEMENTARY GREEK
Continuation of Greek 1.
Four hours second semester.

3 AND 4. XENOPHON: ANABASIS
Books I.-IV. Composition continued. Homer: Iliad, Book I. Metrical reading.
Four hours, both semesters.

5. LYSIAS: SELECTED ORATIONS
Exercises in recomposition of the text. Analysis of style of Lysias. Lectures on the Greek orators.
Three hours, first semester.

6. HOMER: ILIAD, SELECTIONS

Study of forms from text and from Sterrett's Dialect of Homer. Metrical reading of the Greek. Lectures on the Homeric Poems as literature.
Three hours, second semester.

101. EURIPIDES: IPHIGENIA IN TAURIS; ARISTOPHANES; CLOUDS

Discussion of the plot and characters. Lectures on the Greek theater. Study of the various metres and exercises in metrical reading.
Three hours, first semester.

102. DEMOSTHENES: ORATION ON THE CROWN

Analysis of the style of Demosthenes. Supplemented by reading from Dionysius and select passages from Hyperides, Isaeus, Aeschines and Isocrates.
Three hours, second semester.

103 AND 104. GREEK LITERATURE IN ENGLISH

Lectures on style, with class work in Fowler's History of Ancient Greek Literature. Required reading of three Greek authors per semester in the best translations, with critical review of each. The power to criticise independently and appreciate reasonably a work of literary art is sought in this course as well as some direct and personal acquaintance with the literature of Greece.
Three hours, both semesters.

105 AND 106. MODERN GREEK

A Practical Method by Rangabe will be used as a guide. Part of each hour will be given to conversation in Modern Greek. A magazine published at

Athens will be taken by each member of the class. Short stories by present-day writers will be read.
Three hours, both semesters.

107. LUCIAN: SELECTED DIALOGUES

Exercises in recomposition. Required reading of other dialogues in translation. Lectures on the Greek rhetoricians.
Three hours, first semester.

108. PLATO: APOLOGY, CRITO AND PART OF THE PHAEDO

Discussion of the life and teachings of Socrates. Reading and reviews of the Gorgias, Symposium and Republic in Jowett's translation.
Three hours, second semester.

109 AND 110. NEW TESTAMENT GREEK

The four Gospels, first Epistle to the Corinthians, Epistle to the Hebrews, Epistle of James, and first Epistle of Peter will be translated from the original. Idioms of New Testament Greek will be classified and studied with a thorough review of grammar, using Robertson's Short Grammar of the N. T. and Burton's Moods and Tenses in N. T. Greek.
Prerequisite, Greek 1-4.
—— hours, both semesters.

HISTORY

A. Harvey Collins
Howland Cyrus Merrill

Note:—The six hours of History required for graduation from any department may be selected from the following groups as units: History 3 and 4; 4 and 105;

History 107 and 108; History 9 and 10; History 111 and 112 or History 9 and 114.

Students may major in American History, in European History or, by arrangement with the department, in a combination of both.

Political Science 103 and 107 are accepted as history majors.

5 AND 6. CURRENT HISTORY

A discussion of the important topics of the day, using such periodicals as the Independent, Digest, Outlook, et al.

One hour, both semesters. Mr. Collins.
6 omitted 1922-23.

AMERICAN

9. AMERICAN COLONIAL EXPANSION

A study of the expansion of Europe in the Americas during the sixteenth and seventeenth centuries. Attention is given to the discoveries, explorations and the founding and development of the European colonies in the Americas, and the adaptation of European peoples and institutions to American conditions. The colonial policies of these nations are noted and compared.

Required of majors in American History.
Three hours, first semester. Mr. Collins

10. AMERICAN EXPANSION

A study of the expansion of the American people from the Atlantic seaboard along territorial, industrial and social lines; the analysis of the various complex forces which have resulted in the ideas and institutions of today; the religious institutions, manners and customs, sectional divergences and cross currents ; the early westward movement; the rapid advance of the American frontier and its continuous influence upon national and international affairs; the development of western democracy and political independence; and of the influence of the Public Land System of the United States.

Lectures with much collateral reading and preparation of papers.

Required of majors in American History.

Three hours, second semester. Mr. Collins

103 AND 104. HISTORY OF MEXICO

A rapid survey of early Mexican civilization and the Colonial period; the establishment of independence and the development of government; social and economic problems; relations with the United States and recent revolutionary movements.

Open to Sophomores.

Two hours, both semesters. Mr. Collins.

107 AND 108. HISTORY OF THE UNITED STATES

Designed to show the growth of the American National Government by a study of the political, social and institutional development of the United States 1783-1923. Special emphasis will be laid on the causes of the Civil War, Reconstruction, and the institutional and political development since 1875.

Lectures, reports, investigations and comparisons.

Three hours, both semesters. Mr. Collins.

110. UNITED STATES 1870-1923

The outcome of reconstruction. New issues. The new South. Business and Politics. Twentieth Century Achievements. The World War.
Two hours second semester.
Not given 1922-23. Mr. Collins

111 AND 112. HISTORY OF THE PACIFIC SLOPE

A study of the discoveries and explorations of the western coast of North America; of the founding and development of the Franciscan Missions, of the Spanish and Mexican regimes in California, of the acquisition of this region by the United States and the development of California and the North West. Lectures from syllabus together with investigations and reports.
Two hours, both semesters. Mr. Collins.

114. HISTORY OF LATIN AMERICA

Beginning with a survey of the importance of the Caribbean region and carrying the study thru the Spanish Colonial System, the Spanish American wars for independence and the social, institutional and industrial development of all Latin America. Special attention will be given to the inter-relationships of the Americas. Library readings and reports will be assigned on the social and cultural character of the Spanish American civilization. Recommended for students of Spanish.
Three hours, second semester. Mr. Collins.

115 AND 116. INTRODUCTORY SEMINAR

This course is intended to give the student practice

in independent research. The student will be introduced to the source and secondary material of a certain periods of American history that he may develop ability in interpretation. Students will be required to prepare and present papers, reports and bibliographies on topics relating to the period under study.
116 omitted 1922-23.
Required of all majors in American History.
One hour both semesters. Mr. Collins

117. History of the Pacific Area

A study of the activities of European peoples and of the United States in the Pacific Ocean and adjacent regions; the Far Eastern problems and conditions and the results of the Washington Limitation of Armaments Conference as effecting the Pacific Area.
Two hours first semester.
Not given 1922-23. Mr. Collins

EUROPEAN

1 and 2. English History

This course is planned so as to cover the principal features of English History to the present time. Special attention will be paid to the constitutional phases.
Three hours, both semesters. Mr. Collins.

3 and 4. Medieval and Modern Europe

A survey of the leading events in European History from about 476 to 1815 A. D., with special reference to the development of the great institutions

both of Church and State. Text, lectures, collateral readings, preparation of maps and papers.
Sophomore course.
Required of majors in European history.
Three hours, both semesters. Mr. Merrill.

101 AND 102. HISTORY OF GREECE

A study of the civilization of the Greeks, the development of their politics, art and philosophy and their influence on the world.
Three hours, both semesters. Mr. Kyle.

101b AND 102b. HISTORY OF ROME

The story of the city that conquered and ruled the world, the spirit that absorbed and unified and trained the world, and the men and the institutions which it produced.
A continuation of Course 101.
Three hours, both semesters.
Not given 1922-23. Mr. Kyle.

105. NINETEENTH CENTURY EUROPE

Beginning with the general peace secured by the Congress of Vienna this course deals with the new political, social and international problems that characterize the nineteenth century.
Prerequisite, History 4 or 1 and 2.
Required of majors in European history.
Three hours, first semester. Mr. Merrill.

121. THE SPREAD OF CHRISTIANITY

The story of the early centuries of the Christian era

with special reference to the progress and organization of Christianity.
Two hours, first semester. Mr. Merrill.

122. THE BARBARIAN KINGDOMS

A study of the conquest of the Western Empire by the barbarian tribes, the establishment of their various kingdoms and their influence upon medieval Europe.
Two hours, second semester. Mr. Merrill.

123. THE HOLY ROMAN EMPIRE

The intention of this course is to trace the development of the medieval imperial idea, the struggle of the Empire with the Papacy and the beginnings of modern nations. Attention is given also to certain social phenomena of the period, the feudal order, monasticism, the crusades.
Two hours, first semester Mr. Merrill

124. THE REFORMATION

A detailed study of the Protestant Reformation. An attempt is made to discover the causes leading to the movement and the immediate and ultimate results, as well as to trace the current of events.
Two hours, second semester. Mr. Merrill

125. THE FRENCH REVOLUTION

A careful survey of the social and political changes that found at least a partial expression in the revolution in France.
Two hours, first semester. Mr. Merrill

126. The History of the English People

Attention is given to the growth of the English nation and to its peculiar political and social features.
Two hours, second semester. Mr. Merrill
Of courses 121-126 but two will be offered in any year. Within reasonable limits a choice may be made according to the particular needs of each class. History 3 is prerequisite for 121, 122, 126; History 4 is prerequisite for 124 and 125.

HISTORY OF ART AND HISTORY OF MUSIC

See Description of Courses under Fine Arts College.

HYGIENE

A study of hygiene in its personal and social aspects—stressing the underlying principles which promote and conserve the life forces, and discussing the meaning and importance of "the art of right living" in relation to the individual and life in general. This is supplemented with any necessary explanation of the structure and functions of the human body which may serve to strengthen the plea for right living.
Lectures, readings and recitations.
Required of all Freshmen.
One hour, both semesters.

LATIN

James W. Kyle

1 and 2. Cicero: Orations and Letters

Composition based on the text. Much reading in Latin to acquire expression. Memorizing of select passages.
Three hours, both semesters.

3 AND 4. VERGIL: AENEID, BOOKS I.-VI.

Metrical reading of the whole text. Discussion of syntax and figures of Vergil. Reading and reports from Sellar's "Vergil." Memorizing of select passages.

Three hours, both semesters.

The above courses are intended for students who entered with only two years of Latin.

5. CICERO: DE SENECTUTE AND DE AMICITIA

Review of forms and syntax. Discussion of the life and thought of Cicero and the sources of his philosophy.

Three hours, first semester.

6. HORACE: SELECTIONS FROM ODES, SATIRES AND EPISTLES

Will be read metrically to secure ease and fluency in the Latin. Parallel passages from Greek and English poets. Discussion of the spirit and art of Horace.

Three hours, second semester.

9 AND 10. LATIN COMPOSITION

Illustrating the syntax and diction of several Latin authors. Designed especially for those who are preparing to teach Latin.

Two hours, both semesters.

101. PLAUTUS: CAPTIVI, TRINUMMUS AND RUDENS

Metrical reading. Lectures on Latin Comedy and the Greek Theatre.

Three hours, first semester.

102. LUCRETIUS; CATULLUS; TIBULLUS; SELECTIONS
Metrical reading, lectures and critical essays on the Latin poets.
Three hours, second semester.

103. SENECA: SELECTIONS FROM ESSAYS AND LETTERS
Discussion of philosophy and ethics at Rome in the early Empire. The style of Seneca compared with Cicero and with Tacitus.
Three hours, first semester.

104. QUINTILIAN: INSTITUTIONS, BOOKS X. AND XII.
Discussion of literary criticism among the Romans, and a rapid survey of the field of Latin literature.
Three hours, second semester.

*105. CICERO—THE TUSCULAN DISPUTATIONS
With selections from Lucretius. A study of the various schools of Greek philosophy and their influence on the thought and feeling of Rome in the latter days of the Republic.
Three hours, first semester.

*106. PETRONIUS AND MARTIAL
Selections from the Cena Trimalchionis and from the Epigrams of Martial.
Discussions of the social life and customs of the Romans, with special assignments and reports.
Three hours, second semester.

107. LIVY: SELECTIONS FROM BOOKS I.-X.
Lectures on the history of Rome. Discussion of the style and rhetorical methods of Livy.
Three hours, first semester.

108. Tacitus: Histories, Books I. and II.

Systematic study of the style of Tacitus. Comparison with Livy and Thucydides. Lectures on the life and times of Tacitus.
Three hours, second semester.
*Omitted 1922-23.

MATHEMATICS

Emma Kirtland Whiton
Mrs. Keith

1. Algebra

This course is substantially equivalent to intermediate Algebra, frequently offered for matriculation. It should be taken by all Freshmen who do not offer this course for entrance.
Three hours, first semester.

2. Trigonometry

Analytic Trigonometry, the proof and applications of the fundamental relations among the functions of angles. Practical Trigonometry, the solution of the plane triangle, measurements of heights and distances.
Prerequisite, Mathematics 1.
Three hours, second semester.

3. Solid Geometry

The fundamental propositions of Solid and Spherical Geometry with many original exercises applied especially to the mensuration of solids.
Three hours, first semester.

5. Elements of Analytic Geometry

A study of the point, the line and the circle, with

some of the more important and elementary theorems on the conic sections.
Prerequisite, Mathematics 1 and 2.
Three hours, first semester.

6. College Algebra

Rapid review of the theory of quadratic equations, permutations and combinations, series, logarithms, determinants and elementary theory of equations.
Prerequisite, Mathematics 1 and 2.
Three hours, second semester.

101 and 102. Differential and Integral Calculus

Fundamental formulae and processes of differentiation with an insight into the powerful factor which this subject is in modern scientific research, and a study of the processes of integration and their application to physical and mechanical problems.
Prerequisite, Mathematics 1, 2, 5.
Three hours, both semesters.
(Open to Sophomores.)

103. Theory of Equations

Equations of higher degrees, symmetric functions of roots, determinants of higher orders.
Prerequisite, Mathematics, 1, 2, 5, 6.
Three hours, first semester.

104. Elementary Projective Geometry

Fundamental concepts; anharmonic ratio; projective pencils and ranges. Designed especially for those who purpose to teach mathematics.
Prerequisite, Mathematics 1, 2, and 5.
Three hours, second semester.

***105 AND 106. ADVANCED ANALYTICAL GEOMETRY**

A more detailed study of the properties of the conic section; some insight into the study of higher plane curves, including introduction to modern methods in analytic geometry.
Prerequisite, Mathematics 1, 2, 5, 6.
Three hours, both semesters.

108. ANALYTICAL GEOMETRY OF THREE DIMENSIONS

Analytic study of the plane and straight line in space, surfaces of the second degree, introduction to theory of surfaces in general.
Prerequisite, Mathematics 1, 2, 3, 5.
Three hours, second semester.

***109 AND 110. ADVANCED CALCULUS AND DIFFERENTIAL EQUATIONS**

A study of many of the important applications of the calculus with the solution of differential equations and their application in the solution of physical problems.
Prerequisite, Mathematics 1-6, 101, 102.
Three hours, both semesters.

*Omitted 1922-23.

MUSIC CREDIT FOR A. B. DEGREE

Credit toward the A. B. degree will be given in the College of Liberal Arts for music work, subject to the following conditions:

1. A Freshman may receive credit for not more than four hours per year.

2. A Sophomore may receive credit for not more than six hours per year.
3. Not more than 24 hours of music may be counted toward the 126 hours required for the A. B. degree.
4. Of the 24 hours of music work allowed toward the A. B. degree not more than 12 may be in applied music.
5. No credit for applied music toward the A. B. degree except when taken after or contemporaneous with Musical Appreciation courses 5 and 6.

PHILOSOPHY AND EDUCATION

Herbert E. Wise

Courses 1 and 2 are required of those majoring in Philosophy. All other courses will be accepted as majors.

1. Logic

Historic stages in the development of Logic; principles of deduction and induction; detection of fallacies; training in discriminative and consecutive thinking.
Three hours, first semester.

2. Introduction to Philosophy

This course affords a survey of the field of philosophic enquiry, both in its historical and interpretive aspects
Three hours, second semester.

101. General Psychology

An introduction to the fundamental principles of Psychology. Human behaviour is studied with re-

spect to its affective, discursive, and volitional processes.
Text, collateral and reports.
Three hours, first semester.

102. APPLIED PSYCHOLOGY

Interpretation of emotion and temperament in literature; suggestion and therapeutics; vocational and religious psychology. Special consideration is given to psychology of thinking.
Three hours, second semester.
Prerequisite 101.

103. HISTORY OF PHILOSOPHY

The course traces the development of philosophy from the Greek interpretation of the universe to the scientific explanation of the modern period. Careful attention is given to Plato and Aristotle, to the period of Scholasticism and to the independent thinkers from Descartes to Hume.
Three hours, first semester.

104. HISTORY OF PHILOSOPHY (Continued.)

Attention is given to the rise and development of the Kantian system; to Kant's influence upon subsequent thought; to Post-Kantian Idealism in Europe and America, chiefly with reference to Hegelianism and its tendencies. Thesis required.
Three hours, second semester.

105. ETHICS

Historical survey of the different ethical theories. The world of Values. Ethical interpretation of

Freedom. Morality and Religion. Text, collateral and reports. Thesis required.
Three hours, first semester.

106. THEISM

Divine and human personality; arguments for the Divine existence; principal Anti-theistic theories; ethical and religious teaching of Christianity; relation of Christianity to other religions.
Three hours, second semester.

*109. PHILOSOPHY OF RELIGION

Nature and development of religion; characteristics of developed religion; religious knowledge and its validity; the ultimate truth of religion.
Three hours, first semester.

111. CONTEMPORARY PHILOSOPHY

Various philosophical tendencies of representative thinkers in Naturalism, Realism, Pragmatism and Idealism will be considered. • Special attention will be give to the views of Bergson and Eucken.
Prerequisite 2.
Three hours, first semester.

*116. (a) PHILOSOPHY OF EDUCATION

This course emphasizes the distinguishing aspects of the educative process, comprising the biological, psychological, sociological, and religious. Text is supplemented by special investigations.
Prerequisite, Philosophy 101.
Three hours, second semester.

* (b) HISTORY OF EDUCATION

The functional aspects of the history of education are traced through Ancient, Mediaeval and Modern periods, as shown in individual and social aims. Text, lectures and reports.
Prerequisite, Philosophy 101.
Three hours, second semester.

Note 1.—116 (a) and (b) are alternate. (b) not given in 1922-23.

*118. PRINCIPLES OF SECONDARY EDUCATION

Physical and Mental traits of the pupil.
Relation to both Elementary and Higher Education.
Program of studies. Organization.
Prerequisite, Philosophy 101.
Three hours, second semester.
*Omitted in 1922-23.

PHYSICAL EDUCATION

Guy Daniels
Eda M. Falkland

The aim is to promote the physical welfare of the individual through stimulating the functioning of the organs of the body and correcting all possible defects—especially those relating to posture; to develop the mental faculties such as attention, judgment, discrimination, self-control, etc.; and to assist in building character by the creation of high ideals.

1 AND 2. ELEMENTARY COURSE FOR FRESHMEN

a. Practical floor work.
Two hours, both semesters.

b. Outdoor sports elected by students but subject to the approval of the Physical Director.
Two hours, both semesters.
*Required of all Freshmen.
One hour credit each semester.

3 AND 4. ADVANCED COURSE FOR SOPHOMORES

a. Practical floor work.
Two hours, both semesters.
b. Outdoor sports elected by student but subject to the approval of the Physical Director.
Two hours, both semesters.
*Required of all Sophomores.
One hour credit each semester.

5 AND 6. CORRECTIVE GYMNASTICS

All Freshmen and Sophomores who are unable to take the regular gymnasium work on account of physical defects are required to substitute a course in special corrective exercises adapted to the individual.

Physical examinations and measurements are taken at the beginning and end of the Freshmen and Sophomore years to determine the degree of physical efficiency. Accurate records are kept. Follow up work is pursued with the view to assisting individuals in acquiring and maintaining physical fitness.

The University of Redlands recognizes the value of athletics in the college curriculum. Athletics is the vitalizing force of "College Spirit," and hence of value to college students in general. Athletics, when properly coached and controlled, is of great value to the participant for not only is the body developed, the eye made keener and the judgment quickened, but, if allowed so to do, the broader and finer qualities of mind and of soul, even, find expression and receive impulses and strength. Therefore athletics occupies the usual important place in the schedule.

These sports include football, basketball, baseball, and track.

Dress requirements for women students in Physical Education:

All women students are required to have black bloomers, white middy blouses and black gymnasium shoes.

*Men engaging in athletics are, upon recommendation of the Coach excused from these courses during their period of participation in athletics.

PHYSICS

Herbert E. Marsh
Edgar B. Van Osdel

1 and 2. Mechanics, Molecular Physics, Heat, Sound, Light, Magnetism and Electricity

This course is designed for those who have not had a requisite amount of work in this subject to undertake the more advanced courses 101 and 102, and also to meet the requirements of courses involving the essentials of this branch of science. May be pursued without previous work in Physics.

Prerequisite Math. 1.

Recitations and lectures two hours and two laboratory periods, both semesters. Mr. Van Osdel

101 and 102. Mechanics, Molecular Physics, Heat, Sound, Light, Magnetism and Electricity

Although the grasping of principles and not skill

in manipulation is strongly emphasized, still the fixing power of laboratory application is recognized. The purpose is to give the student an insight into the real significance of physical things, by putting him in touch with the methods and instruments of modern physical investigation and by carrying him through the process of reasoning by which the present science of physics has been developed.
Prerequisite, one year of entrance Physics and Mathematics 2 and 6.
Recitation and lectures three hours and two laboratory periods, both semesters. Mr. Marsh

103 AND 104. ELECTRICAL MEASUREMENTS

A study of the construction and calibration of various types of measuring instruments and of methods for determination of electromotive force, current, resistance, induction, capacity, etc. A study of alternating currents and radio apparatus is included.
Mr. Van Osdel

POLITICAL SCIENCE

Howland Cyrus Merrill

Note:—All courses except 1 and 2 will be accepted as major courses.

1. UNITED STATES GOVERNMENT AND POLITICS

A study of the American federal system; the establishment of the Constitution; the development of national institutions; the powers of the federal government and their exercise.
Three hours, first semester.

2. STATE AND LOCAL GOVERNMENT IN THE UNITED STATES

Relation of the states to the central government; state constitutions; the organization and government of local units; special reference to California.
Three hours, second semester

101. GENERAL POLITICAL SCIENCE

An introductory survey of the general field of political science, viewing the state in the light of fundamental principles. The course will serve as a background for more specialized work in the department.
Three hours, first semester.

102. INTERNATIONAL LAW

A study of the general principles governing nations in their intercourse with each other, such as rules of peace and war, diplomatic usage and methods of arbitration. Leading cases, reports o nspecial topics.
Three hours, second semester.

*103. GROWTH OF THE ENGLISH CONSTITUTION

A study of government in England from the Saxon period to the present time; the development of political parties; comparison with the federal system of the United States.
Accepted as a major in European history.
Three hours, first semester.

*104. GOVERNMENTS OF CONTINENTAL EUROPE

A comparative study of the political institutions of the leading states of Continental Europe.
Three hours, second semester.

*106. MUNICIPAL GOVERNMENT

Mainly a study of the modern American city will

be made; but comparisons will be made with the government and experiences of European cities.
Three hours, second semester.

107. American Diplomacy

A historical survey of the international relations of the United States; a study of particular diplomatic problems.
Accepted as a major in American history.
Seminar. Two hours, first semester.

108. History of Political Thought

A study of political ideals from ancient and modern times, emphasizing the evolution of democracy.
Seminar. Two hours, second semester.

110. International Organization

This course deals with the process of expansion and development in international organization, together with the conditions that point to future progress in the same direction. The causes that are leading to world federation are studied both historically and politically and a careful survey is made of contemporary world conditions.
Three hours, second semester.
Omitted 1922-23.

SPANISH

Edith A. Hill
Frank H. Reinsch

1. First Year Spanish

Ready familiarity with the essentials of Spanish grammar, and systematic training in pronunciation, conversation and reading.
Four hours, first semester.

2. First Year Spanish

Continuation of Spanish 1.
Four hours, second semester.

3 and 4. Second Year Spanish

Selected texts from modern Spanish authors.
Three hours, both semesters.

5 and 6. Conversation and Composition Course

A course in conversation and composition based on current events and the history, geography, etc., of Spanish speaking countries. Reports in Spanish by members of the class.
Prerequisite, 1-2.
Two hours, both semesters.

11. Spanish

Laboratory course with phonograph records for practice in ear training, pronunciation, dictation, etc.
Prerequisite, 1.
Three hours of laboratory. One hour credit, one semester.

101-102. Spanish Literature

General survey of Spanish literature to the nineteenth century, with special study of the classics. Outside reading and reports. Conducted in Spanish. Prerequisite, 1-4.
Three hours, both semesters.
Omitted 1922-23.

103-104. Spanish Literature in the Nineteenth Century

Lecture and reading course. Prerequisite, 1-4.
Three hours, both semesters.

105 AND 106. SPANISH COMMERCIAL CORRESPONDENCE

Advanced composition with emphasis on practical commercial Spanish. Study of Spanish speaking countries from the trade standpoint. Prerequisite, 1-2-3-4-5-6.

Two hours, both semseters.

ZOOLOGY

Charles H. Abbott

The department offers courses of general instruction and training in Zoology and Physiology, and more technical courses for students who are preparing for professional work.

Students who expect to major in Zoology should take Botany 1 and 2 as early in the college course as possible.

1. GENERAL ZOOLOGY

An introduction to the fundamental principles of animal biology, and to the elementary facts of structure, physiology, life history, development and ecology of representative animals.

Prerequisite to all other courses in the department.

Two lectures or recitations and two laboratory periods, first semester. Laboratory fee $3.00.

2. GENERAL ZOOLOGY

Continuation of Zoology.

Prerequisite to all other courses in the department.

Two lectures or recitations and two laboratory periods, second semester. Laboratory fee $3.00.

3. ENTOMOLOGY

A study of insects, their structure, development,

classification and economic relations to other organisms.
One recitation, two laboratory periods, first semester. Fee, $2.00.

4. INVERTEBRATES

A course designed to give a broader knowledge of the morphology and ecology of the more important invertebrates.
One recitation and two laboratory periods, second semester. Laboratory fee $3.00.

107. HEREDITY AND GENETICS

A course of lectures dealing with fundamental biological principles, the problems of inheritance and development; the various biological theories, genetics and eugenics.
Three lecture hours the first semester.

109-110. PHYSIOLOGY

A study of the activities of the human organism; of tissue and organs and their functions; of the physiology of nutrition, respiration, circulation, metabolism, the muscular and nervous systems. Chemistry 1-2 are prerequisite.
One recitation and two laboratory periods, both semesters. Laboratory fee $3.00.

112. EMBRYOLOGY

A study of the development of the chick and a pre-

sentation of the general problems of comparative embryology.
One lecture and two laboratory periods, second semester. Laboratory fee $4.00.

113. Comparative Anatomy of Vertebrates

Laboratory study and lectures on vertebrate morphology; with dissection of the main types of vertebrate animals.
One lecture, three laboratory periods, first semester. Not given in 1922-23. Laboratory fee $4.00.

116. Histology

A study of the principal tissues of the mammalian body; and of the method of preparation of material for microscopic study.
One lecture and three laboratory periods, second semester. Laboratory fee $4.00.
Not given in 1922-23.

Schedule of Recitations

FIRST SEMESTER

7:45 O'CLOCK

Bible 3	M		W		F
Botany 101			W	Th	F
Economics 31	M	T	W		F
English 1, Section 1	M		W		F
English 103			W	Th	F
French 103	M		W		F
History 105		T		Th	F
Hygiene 1, Women Section 1		T			
Hygiene 1, Women Section 2				Th	
Hygiene 1, Men		T			
Latin 1	M		W		F
Mathematics 1, Section 1			W	Th	F
Musical Theory 13		T			F
Philosophy 105		T	W	Th	
Physics 1				Th	F
Physics 103	M				
Spanish 1, Section 1	M		W	Th	F
Spanish 105	M			Th	

8:45 O'CLOCK

Bible 101	M	T		Th	
Botany 101	M	T	W	Th	F
Chemistry 1	M	T	W	Th	
Economics 133	M		W		F
English 1, Section 2		T	W		F
French 1, Section 1	M	T		Th	F
French 105			W		F
German 1	M	T	W		F
History 1	M		W		F
History of Art 1		T			F
Latin 3		T	W	Th	
Mathematics 1, Section 2		T	W	Th	
Mathematics 3	M	T	W		
Philosophy 1	M			Th	F
Physics 1		T	W	Th	F
Physics 101	M	T	W	Th	F
Physics 103	M				
Political Science 101	M			Th	F
Zoology 107	M	T	W		

9:45 O'CLOCK

Botany 1, Lab. Section 1	M	T			
Botany 105			W	Th	F
Chemistry 1	M	T			
Chemistry 101			W		
Economics 1	M	T			
Economics 21			W	Th	F
Engineering 103	M			Th	F
English 1, Section 3	M			Th	F
English 109	M		W		F
French 3	M		W		F
French 5		T		Th	
Geology 101	M	T	W		
German 3	M		W		F
German 5		T		Th	
Greek 3		T	W	Th	F
History 111				Th	F
Mathematics 5			W	Th	F
Musical Theory 1	M			Th	
Musical Theory 11		T			F
Philosophy 101	M			Th	F
Physics 101		T	W		
Physics 103				Th	F
Political Science 1	M	T	W		
Spanish 5		T		Th	
Zoology 1, Lab. Section 1				Th	F
Zoology 107	M				

10:45 O'CLOCK

Astronomy 101	M	T		Th	
Botany 1 (Lab. Section 1)	M	T			
Botany 105				Th	F
Chemistry 3				Th	F
Engineering 101	M	T		Th	
English 1, Section 4		T		Th	F
English 163	M	T		Th	
English 193		T		Th	F
French 107		T		Th	
Geology 101	M				
History 107	M	T		Th	
Latin 5	M			Th	F
Mathematics 101	M			Th	F
Musical Theory 3	M			Th	
Philosophy 103	M	T		Th	
Physics 103					F
Political Science 107				Th	F
Zoology 1, Lab. Section1				Th	F
Zoology 1	M	T			

SCHEDULE OF RECITATIONS

1:15 O'CLOCK

Botany 1				Th	F
Botany 1, Lab. Section 2	M	T			
Chemistry 3	M	T			
Chemistry 101		T		Th	F
Chemistry 111	M	T			
Chemistry 113	M	T	W	Th	
Engineering 1				Th	F
Engineering 3				Th	F
Engineering 5	M	T	W		
Engineering 7				Th	F
English 151		T		Th	F
English 181	M	T	W		
English 191			W	Th	F
History 3	M	T	W		
History 9	M	T	W		
History 101	M		W	Th	
History of Art 3		T			F
Musical Theory 111		T		Th	
Philosophy 111	M			Th	F
Spanish 1, Section 2	M	T	W		F
Spanish 3	M	T	W		
Spanish 103	M	T		Th	
Zoology 1, Lab. Section 2				Th	F
Zoology 105		T	W		

2:15 O'CLOCK

Bible 1		T	W	Th	
Botany 1, Lab. Section 2	M	T			
Chemistry 3	M	T			
Chemistry 101		T		Th	F
Chemistry 111	M	T	W	Th	
Chemistry 113	M	T			
Economics 135		T	W	Th	
Engineering 1				Th	F
Engineering 3				Th	F
Engineering 5	M	T			
Engineering 7				Th	F
English 51		T		Th	F
English 157	M	T	W		
French 1, Section 2	M	T	W		F
German 101		T	W		F
Greek 1	M	T	W	Th	
History 103		T		Th	
History 121		T	W		
Mathematics 1, Section 2	M	T	W		
Musical Theory 5		T		Th	
Zoology 1, Lab. Section 2				Th	F
Zoology 105	M	T	W		

3:15 O'CLOCK

Chemistry 3	M	T			
Chemistry 101		T		Th	F
Chemistry 111	M	T			
Chemistry 113	M	T			
Engineering 1				Th	F
Engineering 3				Th	F
Engineering 7				Th	F
Greek 103		T	W	Th	
History 5			W		

SECOND SEMESTER

7:45 O'CLOCK

Bible 4	M		W		F
Botany 4			W	Th	F
Economics 32	M	T	W		F
English 1, Section 1	M		W		F
English 104			W	Th	F
French 104	M		W		F
Hygiene 2, Women Section 1		T			
Hygiene 2, Women Section 2				Th	
Hygiene 2, Men		T			
Latin 2	M		W		F
Mathematics 2, Section 1			W	Th	F
Musical Theory 14		T			F
Philosophy 106		T	W	Th	
Physics 2				Th	F
Physics 104	M				
Political Science 110		T		Th	F
Spanish 2, Section 1	M		W	Th	F
Spanish 6	M			Th	

8:45 O'CLOCK

Bible 102	M	T		Th	
Botany 4			W	Th	F
Chemistry 2	M	T	W	Th	
Economics 134	M		W		F
English 2, Section 2		T	W		F
French 2, Section 1	M	T		Th	F
French 106			W		F
German 2	M	T	W		F
History 2	M		W		F
History of Art 2		T			F
Latin 4		T	W	Th	
Mathematics 2, Section 2		T	W	Th	
Philosophy 2	M			Th	F
Physics 2		T	W	Th	F
Physics 102	M	T	W	Th	F
Physics 104	M				
Zoology 108	M	T	W		

SCHEDULE OF RECITATIONS

9:45 O'CLOCK

Botany 2, Lab. Section 1	M	T			
Botany 106			W	Th	F
Chemistry 2	M	T			
Chemistry 102			W		
Economics 2	M	T			
Economics 22			W	Th	F
Engineering 104	M			Th	F
English 2, Section 3	M			Th	F
English 110	M		W		F
French 4	M		W		F
French 6		T		Th	
Geology 102	M	T	W		
German 4	M		W		F
German 6		T		Th	
Greek 4		T	W	Th	F
History 112				Th	F
History 114	M	T	W		
Mathematics 6			W	Th	F
Musical Theory 2	M			Th	
Musical Theory 12		T			F
Philosophy 102	M			Th	F
Physics 102		T	W		
Physics 104				Th	F
Political Science 2	M	T	W		
Spanish 6		T		Th	
Zoology 2, Lab. Section 1				Th	F
Zoology 108	M				

10:45 O'CLOCK

Astronomy 102	M	T		Th	
Botany 2, Lab. Section 1	M	T			
Botany 106				Th	F
Chemistry 4				Th	F
Engineering 102	M	T		Th	
English 2, Section 4		T		Th	F
English 156	M	T		Th	
English 194		T		Th	F
French 108		T		Th	
Geology 102	M				
History 108	M	T		Th	
Latin 6	M			Th	F
Mathematics 102	M			Th	F
Musical Theory 4	M			Th	
Philosophy 104	M	T		Th	
Physics 104					F
Political Science 108					F
Zoology 2, Lab, Section 1				Th	F
Zoology 2	M	T			

1:15 O'CLOCK

Botany 2				Th	F
Botany 2, Lab. Section 2	M	T			
Chemistry 4	M	T			
Chemistry 102		T		Th	F
Chemistry 112	M	T			
Chemistry 114	M	T	W	Th	
Engineering 2				Th	F
Engineering 6	M	T	W		
Engineering 8				Th	F
English 152		T		Th	F
English 182	M	T	W		
English 192			W	Th	F
History 4	M	T	W		
History 10	M	T	W		
History 102	M		W	Th	
History of Art 4		T			F
Musical Theory 112		T		Th	
Philosophy 116 (a)		T		Th	F
Spanish 2, Section 2	M	T	W		F
Spanish 4	M	T	W		
Spanish 104	M	T		Th	
Zoology 2, Lab. Section 2				Th	F
Zoology 106		T	W		

2:15 O'CLOCK

Bible 2		T	W		F
Botany 2, Lab. Section 2	M	T			
Chemistry 4	M	T			
Chemistry 102		T		Th	F
Chemistry 112	M	T			
Chemistry 114	M	T	W	Th	
Economics 140		T	W	Th	
Engineering 2				Th	F
Engineering 6	M	T			
Engineering 8				Th	F
English 52		T	W	Th	
English 112	M	T	W		
French 2, Section 2	M	T	W		F
German 102		T	W		F
Greek 2	M	T	W	Th	
History 104		T		Th	
History 122		T	W		
Mathematics 2, Section 3	M	T	W		
Musical Theory 6		T		Th	
Zoology 2, Lab. Section 2				Th	F
Zoology 106	M	T	W		

3:15 O'CLOCK

Chemistry 4	M	T			
Chemistry 102		T		Th	F
Chemistry 112	M	T			
Chemistry 114	M	T			
Engineering 2				Th	F
Engineering 8				Th	F
Greek 104		T	W	Th	
History 6			W		

College of Fine Arts

DEPARTMENT OF MUSIC AND ART

GENERAL INFORMATION

In accordance with the plan followed in connection with the other departments of the University, provisions have been made for the most thoro and advanced work in the Departments of Music and Art.

The line of work in the University course in Music, conferring the degree of Bachelor of Music, corresponds with that of some of the European Universities.

Preparatory, or Elementary work has also been provided to accommodate those who have not the proper number of entrance requirements for registration in the College work in Music. Saturday classes for children and young people in both Piano and Art provide a valuable opportunity for the cultivation of talent in the early years under the guidance of competent instructors.

Realizing the extent to which superior musical efficiency is attainable only in conjunction with the highest cultural development, stress is laid upon this phase of the students' growth; and special attention is directed to such courses in the other departments of the University as will prove of value in this respect to Music and Art students.

Classes in the Department of Music will be organized at the beginning of the college year, as indicated in the Calendar.

Special lessons may be begun at any time.

Piano practice may be arranged for at the Fine Arts Building.

WOMEN'S GLEE CLUB

The Philomela Chorus (Women's Glee Club) has achieved an enviable reputation for musicianship by participating in such artist programs as those of the Zoellner Quartet and the convention of the State Federation of Music Clubs. Besides a regular concert trip in the spring the club will give a number of concerts during the school year. There will be at least one substitute for each part who will be allowed to practice with the club, and to take part in home concerts and all social affairs as a member of the club but who will not take the spring trip.

MEN'S GLEE CLUB

The Men's Glee Club has been growing in favor with audiences in all parts of California.

The standard of the music rendered by the club has always been such that the programs are regarded as possessing real musical and artistic value. All men, in the university, who satisfy the scholarship requirement, are eligible to try for membership in the organization. The personnel of the club is determined by that member of the faculty of the Fine Arts College who is responsible for the training of the chorus.

For particulars and terms, address College of Fine Arts, University of Redlands, Redlands, California.

DEPARTMENTS, DEGREES AND REQUIREMENTS

DEPARTMENTS

The College of Fine Arts is made up of the following Departments:

(1) Music. (2) Drawing and Painting.

DEGREES AND CERTIFICATES

A diploma, conferring the degree, Bachelor of Music, will be awarded to each student who completes the course prescribed therefor. The student may choose as his major, organ, piano, violin or voice.

The student who includes among his electives Public School Music is recommended for the elementary and high school teachers' certificate.

REQUIREMENTS FOR ADMISSION

There are two methods of admission to the College of Fine Arts, (1) by Examination, (2) by Certificate.

By Certificate:—Students will be admitted without examination on certificates from accredited High Schools or other preparatory schools, provided that the course completed in High School shall include at least twelve units in subjects usually designated as solids.

By Examination:—All students who cannot present certificates from accredited schools will be examined in the subjects required for entrance.

Students who do not present Physics for entrance will be required to pursue that subject through at least the discussion of Sound.

In Piano and Organ—Applicants are required, in addition to the above, to pass an examination embracing the following or their equivalent:

1. An exercise. 2. Selections from Bach. 3. Sonata—Classical School.

In Voice and Violin:—Applicants for the regular course in Voice, or Violin, must be able to play Piano accompaniments of moderate difficulty. Any deficiencies in this respect must be made up before graduation.

Advanced Standing:—Students who wish college credit for music done elsewhere must present satisfactory credentials from other institutions of collegiate rank. Those who cannot do so will be required to take at least one semester's work in the Department of Music; if this is found satisfactory advanced credit may then be given upon recommendation of the department and vote of the faculty.

SPECIAL STUDENTS IN MUSIC

Students need not be deterred from seeking to enter the College of Fine Arts of the University because they can not satisfy all the requirements for full admission to that school. Those requirements are for persons who are candidates for a degree in music. All persons who desire to pursue a special line of work, without conforming to the requirements for entrance, or following a prescribed course, may apply for admission to the College of Fine Arts as special students. The admission of such person is under the control of the Department in which he wishes to register.

PUBLIC SCHOOL MUSIC

The University offers unusual advantages to students wishing the best preparation for efficient teaching, especially to those who wish to prepare themselves to teach music in high schools in addition to French, English, or some other subject.

Teachers with experience in public schools and with some musical training, who desire to enter a special field, will find the course suited to their needs. Students may combine work in this department with the four years course in Liberal or Fine Arts.

REQUIREMENTS FOR GRADUATION

No student will be permitted to graduate from the Department of Music, College of Fine Arts, who has not credit for 126 hours and 126 credit points, and who has not taken at least one year of regular work at the University.

Students taking instrumental work in music are required to give a definite amount of time to practice each day for each lesson taken per week. This is considered as laboratory work. One lesson per week with the required practice entitles the student to one hour of credit. Two lessons per week gives three hours credit.

Students taking Voice are required to practice from one-half to one hour per day, according to the grade of the work, for each lesson taken per week. This is considered as laboratory work, and together with the lesson taken gives the student one hour of college credit toward the 126 required for graduation.

The required work leading to the different degrees is as follows:

BACHELOR OF MUSIC IN ORGAN

Organ	12
Piano	12
Theory	26
English	6
Modern Languages	18
History	6
Sociology	3
Psychology	3
Hygiene	2
Physical Education	4
History of Art	4
Voice	4
Electives	26
	126

BACHELOR OF MUSIC IN PIANO

Piano	24
Theory	26
English	6
Modern Languages	18
History	6
Sociology	3
Psychology	3
History of Art	4
Voice	2
One additional Instrument or Voice	6
Hygiene	2
Physical Education	4
Electives	22
	126

BACHELOR OF MUSIC IN VIOLIN

Violin	24
Piano	12
Theory	26
English	6
Modern Languages	18
History	6
Sociology	3
Psychology	3
History of Art	4
Hygiene	2
Physical Education	4
Electives	18
	126

BACHELOR OF MUSIC IN VOICE

Voice	16
Piano	12
Theory	26
English	6
Modern Languages	18
History	6
Sociology	3
Psychology	3
History of Art	4
Hygiene	2
Physical Education	4
Electives	26
	126

Note—For description of required Liberal Arts courses see Description of Courses, College of Liberal Arts.

CONCERTS AND RECITALS

Concerts are frequently given in Recital Hall, by the Faculty and advanced students.

Concert courses which are arranged for at special rates by the Spinet Club of Redlands, afford Students an opportunity to hear many noted musicians.

Recitals are given semi-monthly by the students of the College of Fine Arts at which works studied in the class room are performed before audiences of fellow students and their friends. All music students are required to attend these concerts and recitals, and to take part in programs at least twice a year and to present, each semester, a record of attendance. These semi-public appearances are of great assistance in enabling the student to acquire the ease and self-possession so essential to a successful public appearance.

At the close of the College year, during Commencement Week, the Anniversary Recital of the College of Fine Arts, Department of Music is held at which the students doing the best work in performance at the above-mentioned recitals are heard.

ART

Students for the Art Department will be admitted at any time, but not for less than one semester except by special arrangement with the Instructor.

Instruction in all Art Classes is individual. Advancement of each student depends upon the degree of proficiency attained.

ADDITIONAL REQUIREMENTS

ARTISTS' COURSE—COLLEGIATE COURSE

These courses are identical in outline, but students in the Artists' courses are expected to do a larger amount of work, to maintain the highest grade in all musical subjects, and give a graduating recital. This is not required in the collegiate course, which is intended for those who wish to fit themselves for teachers or take music for personal culture rather than to become public performers. After the second year students are graded in the two courses according to their standing.

Students who are backward in technical development at the end of the Sophomore year must make up the deficiency by special work in Piano before they receive Junior standing.

FEES

Matriculation fee, payable once, at time of first registration	$5.00
Registration fee, per semester	$2.50
Graduation fee	$5.00

COLLEGE OF FINE ARTS

TUITION FEES, PER SEMESTER, SIXTEEN WEEKS.

For students who are doing regular work in either the Fine Arts or the Liberal Arts College:

Voice, one period per week	$45.00
Voice, two periods per week	90.00
Piano, one period per week, with Head of Dept.	45.00
Piano, two periods per week	90.00
Piano, one period per week, with Associate	30.00
Piano, two periods per week	60.00
Piano, one period per week, with assistant	20.00
Piano, two periods per week	40.00
Piano, Saturday class for young people	12.00
Organ, one period per week	30.00
Organ, two periods per week	60.00
Violin, one period per week	45.00
Violin, two periods per week	90.00

For students who are not doing regular work:

Voice, one period per week	$48.00
Voice, two periods per week	96.00
Piano, one period per week, with Head of Dept.	48.00
Piano, two periods per week	96.00
Piano, one period per week, with Associate	32.00
Piano, two periods per week	64.00
Piano, one period per week, with assistant	22.00
Piano, two periods per week	44.00
Organ, one period per week	32.00
Organ, two periods per week	64.00
Violin, one period per week	48.00
Drawing and Painting, five hours per week	$50.00
Drawing and Painting, two hours per week	20.00

The following charges for practice piano for the semester will be made:

Two hours or less per day	$5.00
Three hours per day	6.50
Four hours per day	7.50

The tuition fees for other courses in the Fine Arts College are the same as those in the Liberal Arts College. For a statement of these fees, see "Expenses," Liberal Arts College.

Description of Courses

ART

Kate Watkins, Head of Art Department

Note—Students in the Art Department will be given one semester hour of credit, toward a Liberal Arts degree, for three hours of studio work per week, provided that no student is to receive more than two such credit hours.

Complete course in the following:
Drawing.
Modelling in clay.
Painting in oil and water color.
Working from the cast, still life, and model.
Composition and design.
Out-door sketching.

The following course is designed for those who wish to prepare themselves for teachers of Art. A certificate of proficiency will be awarded for the satisfactory completion of this course which is open to graduates of recognized High Schools:

Studio work	18 hours
Art History	8 hours
English	6 hours
Psychology	3 hours
Ethics	3 hours
Modern Languages	14 hours
Biblical Studies	2 hours
Electives	11 hours
Total	65 hours

STUDIO WORK

House planning and interior decoration.
Two hours, both semesters, with one hour of college credit.
Charcoal drawing from cast and still life.
Pen and ink, and pencil drawing.
Modelling in clay.
Painting in oil and water color, from still life and model.
Outdoor sketching.
Composition and design.
Wood block designing.
Interior decoration.
Painting from life.
Artistic anatomy—Perspective.

HISTORY OF ART

1. Ancient and Mediaeval Architecture and Sculpture.
   Two hours, first semester.
2. Renaissance and Modern Architecture and Sculpture. Continuation of Course I.
   Two hours, second semester.
3. Painting, Early Painting and Renaissance Painting.
   Two hours, first semester.
4. Painting, Modern. Continuation of Course 3.
   Two hours, second semester.

Lecture courses, supplemented by collateral reading and picture study.

PIANO

Charles Howard Marsh
Annette Cartlidge
Flora Cordelia Cook

1. Piano

Technical training according to the principles **of**

modern piano technique. Systematic training in art-principles of technique, phrasing and tone-quality. Elementary study of the characteristics of the various classic composers. Repertoire of selections from standard works by the best composers.
Two hours, first semester.

2. Piano

Technical training.
Continuation of classical study (at least two Sonatas).
Repertoire of selections from the works of the best composers, classic and romantic.
Two hours, second semester.

3. Piano

Technical training. Study of the characteristics of the various classic composers. Repertoire.
Two hours, first semester.

4. Piano

Technical training—Continuation of classical study (at least two Sonatas). Repertoire.
Two hours, second semester.

101. Piano

Technical training. Romantic School. Beethoven Sonatas. Repertoire.
Exercises for the independence of the fingers. Bach, Chopin.
Two hours, first semester.

102. Piano

Technical training—Bach (continued). Beethoven (continued). Chopin (continued).
Modern works.
Two hours, second semester.

103. Piano

Technical training.
Studies selected from the works of the greatest masters of pianistic literature. At least one concerto.
Modern compositions.
Two hours, first semester.

104. Piano

Technical training. Interpretations in Modern School of Composition. Pedagogics (for prospective teachers).
Two hours, second semester.

THEORETICAL SUBJECTS

HARMONY, COUNTERPOINT, FORM AND COMPOSITION

Charles Howard Marsh
Flora Cordelia Cook
Annette Cartlidge

1. Harmony

The rudiments of music. Major and minor scales. Intervals Chords and their inversions.
Two hours, first semester.

2. Harmony

Harmonization of figured basses and melodies using triads.
Two hours, second semester.

3. Harmony

The dominant seventh and ninth chords and their inversions. Modulation. Secondary sevenths.
Prerequisite, 1 and 2.
Two hours, first semester.

4. Harmony

Suspensions and embellishments.
Diminished seventh chords.
Chromatic harmony.
Two hours, second semester.

5 and 6. Appreciation of Music

A non-technical course open to all the students of the University and designed to develop intelligent discrimination in listening to music. Various styles of music will be studied, modern tendencies discussed, master works analyzed. Correlation of the arts. Music criticism. Collateral reading.
Two hours, both semesters.

11 and 12. Public School Music

Fundamentals of music teaching in the kindergarten. Rhythmic expression. Singing games. Song interpretation. Individual singing. Work with monotones. Creative songs.
Fundamentals of music teaching in the primary grades, including first, second, and third grades. The work of the kindergarten expanded and enlarged. Practice teaching.
Fundamentals of music teaching in the fourth, fifth, sixth, seventh, and eighth grades. High School course outlined. Preliminaries to sight singing, chorus, glee clubs, orchestra, music appreciation, presentation of harmony, analysis, musical form, materials, and practice teaching.
Two hours, both semesters. Elective.

13 and 14. Sight Singing and Ear Training

Two hours, both semesters.

101. COUNTERPOINT

Prerequisite, 1-4.
Two hours, first semester.

102. CANON AND FUGUE

Continuation of 101.
Two hours, second semester.

103. HARMONIC ANALYSIS AND MUSICAL FORM

Survey of Modern Harmony; orchestration; form.
Prerequisite, 1-4.
Two hours, first semester.

105 AND 106. COMPOSITION

Motive and phrase building; original settings of selected texts for solo voices, for men's and women's voices and for mixed chorus. Composition in the various forms and orchestra scoring, a study of the technical peculiarities of orchestra instruments. The modern orchestra.
Prerequisite, 1-4.
Two hours, both semesters. Elective.

HISTORY OF MUSIC

111 AND 112. HISTORY OF MUSIC

Ancient Music. Mediaeval Music. Music of the Sixteenth Century, of the Seventeenth Century, of the Eighteenth Century and the Classical School, and of the Nineteenth Century and the Romantic School. Later Modern Schools. Lectures supplemented by collateral reading.
Required for Degree of Mus. Bac.
Prerequisite, History 3 and 4.
Two hours, both semesters.

DESCRIPTION OF COURSES

VIOLIN

Joseph Zoellner, Sr.

The following courses are in the main only suggestive as the individual needs of the student must be paramount always. The Belgian style of playing will be advocated as the most efficient both for technic and tone production

In addition to the following material Mr. Zoellner will use technical exercises originated by himself.

1. VIOLIN

Herman method, first part of Book I.
Violin Technique; Sevcik, Book I.
Training of ear; bowing and left hand.

2. VIOLIN

Herman method, second and third parts of Book I.
Violin Technique; Sevcik-Schradieck.
Etudes: Kayser, Mazas, Herman, etc.
Easy solos from the different composers.

3. VIOLIN

Herman method, first part of Book II.
Violin Technique; Sevcik Book II.
Scales and other studies.
Etudes: Fiorillo, Mazas, Leonard, Dont, etc.
Solos according to ability of student.

4. VIOLIN

Herman method, second part of Book II.
Violin Technique; Sevcik.
School Concerti and other selections; Ries, Viotti, Rode, etc.

101. **Violin**

Herman method.
Violin Technique; Sevcik-Schradieck.
Etudes: Herman, Dont, Mazas, etc.
Concerti, Sonate and other solos from modern and classical composers.

102. **Violin**

Herman method.
Violin Technique; Sevcik.
Concerti, Sonate and other solos from Beethoven, David, Brahms, Bach, etc.

103. **Violin**

Violin Technique; Sevcik.
Etudes: Rode, Gavinie, Leonard, Campanolli, etc.
Concerti: Spohr, Vitalli, Lipinski, etc.
Sonate: Bach, Tartini, Corelli.

104. **Violin**

Violin Master Technique; Sevcik.
Etudes: Leonard, Petri, Dont, Vieuxtemps, Paganini.
Concerti for finish and interpretation; Max Bruch, Mendelssohn, Wieniawski, Beethoven, Paganini, etc.
Also concerti of the modern masters.

VOICE

Ellis Rhodes

1. **Voice**

Primary voice culture. Proper control of the breath, ear and mental training in regard to tone-quality. Concone's Fifty Lessons for Medium Part of Voice. Two hours, first semester.

2. Voice

The anatomy and physiology of the vocal organs and connecting parts.
The general principle of vocalization.
Active and passive agents.
Blending the registers.
"Vaccai" (English and Italian).
Two hours, second semester.

3. Voice

Concone.
Easy songs in English.
Songs by early Italian writers.
Ensemble singing.
Two hours, first semester.

4. Voice

Concone's Forty and Twenty-five Lessons for Medium Part of Voice.
Sacred and secular songs in English.
Early Italian Classics.
Two hours, second semester.

101. Voice

Masterpieces of vocalization—Spicker. Later Italian Classics; Mozart, Haydn, Rossini, Donizetti, Bellini, Verdi, etc.
Moderately difficult Oratorio and Opera Arias in English and Italian.
Two hours, first semester.

102. Voice

The trill and other embellishments. General training in agility. Modern Italian and French song literature.

Pedagogy.
Interpretation.
Two hours, second semester.

103. Voice

Ensemble singing.
Oratorio and opera.
Modern songs by American composers.
Repertoire.
Pedagogy.
Two hours, first semester.

104. Voice

Oratorio and opera.
General Repertoire (compositions sung in the original languages).
General training for teachers of voice.
Two hours, second semester.

Register of Students

GRADUATES OF 1921

BACHELOR OF ARTS

Barrett, Virginia M.
Belden, L. Burr
Bredon, A. Forest
Colley, William L.
Cummings, Oliver deWolf
Cummings, William Vaughn
Daniels, Lola
Davis, Grace Louise
Dye, Fred Lee
Gleason, Paul Ray
Hatcher, Abell Perry
Hill, Romayne Bradford
Hotchkiss, Mabel Lucile
Johnson, Lucile
Kilby, Colon O.
Kilby, Izenia Neta
McPhee, Claire Christine
Murphy, Ruth Elizabeth
Reid, Clyde Carson
Richards, Walter John
Scott, Harold Hall
Smith, Inez Lucille
Snell, Beryl Esther
Wagner, Florence June
Wedberg, Hilda G.
Wright, Florence Harriett

BACHELOR OF SCIENCE

Truesdail, Roger Williams

BACHELOR OF MUSIC

Burkey, Ulysses
Fitzsimmons, Helen K.
Marchant, Loia Mildred
Wagner, Florence June
Wente, Elith Grace

REGISTER OF STUDENTS

Explanation: "(2)" written after a name denotes that the student was registered for the second semester only. The number after each name denotes the number of college hours completed at the end of the first semester, 1921-22.

Adair, Maryellen, 39	San Bernardino
Adams, Hallie Marie, 14	Yucaipa
Allec, Emile Jean, 13	Arlington
Allen, Marbara Lindsley, 27	Redlands
Allen, Robinson G., 15	Redlands
Anderson, Donald S. C., 112	Redlands
Anderson, Edwin Ellis, 19	Beaumont
Anderson, Leo Ellis, 56	Beaumont
Andrews, Eleanor, 113	Redlands
Andrus, Russell, 16	Fowler
Armstrong, Mary Elizabeth, 88	Redlands
Axworthy, Cecil Trowbridge, 80	Redlands
Backlund, Milton Andrew, 52	Kingsburg
Backus, Leonard Theodore, 52	Banning
Bancroft, Zenas Daniel, 42	Del Rosa
Bartlett, Helen Margaret, 48	Ogden, Utah
Beightol, Esther Elizabeth, 38	Redlands
Bentzien, Edith Katherine, 77	Pasadena
Berkley, Robert De Long, 18	Santa Monica
Biglow, Grace, 84	Selma
Bissett, Francis Wade, 16	Garden Grove
Black, Bernice Marie, 87	Redlands

Boulette, Marion Louise, 82	National City
Bourlier, Perry LeRoy, 78	Redlands
Bradley, Robert Melville, Jr., 34	San Bernardino
Bradstreet, Raymond Henry, 17	Santa Ana
Branch, Clara Louise, 73	Hermosa Beach
Branch, James Delmar, 62	Hermosa Beach
Briggs, Adelaide, 13	Santa Paula
Bristol, Helen H., 4	Highland
Bristow, William Peyton, 135	Redlands
Brougher, James Whitcomb, Jr., 53	Los Angeles
Brousseau, Idell Caroline, 17	Sacramento
Brown, George Gardner, 87	Long Beach
Brown, Quincy, 7	Redlands
Browning, Hazel Vera, 16	Highlnad
Bruington, Paul LeRoy, 84	Pomona
Brunton, William A., 17	San Diego
Bryant, Elizabeth Arabella, 89	Colorado Springs, Colo.
Bryant, Lelia Cora, 10	Porterville
Buchanan, Ethel May, Sp.	San Bernardino
Bugbee, Grace Catherine, 73	Redlands
Burkey, Ulysses, Sp.	San Bernardino
Burrows, Margaret Miriam, Sp.	San Francisco
Campbell, George Ivan, 7	Long Beach
Carlson, Roy Washington, 110	San Jose
Carpenter, Mrs. Dorothy Helen, Sp.	Del Rosa
Carpenter, Josephine Frances, 17	Long Beach
Carson, Loraine Agnes, Sp.	San Bernardino
Cavanagh, Nancy Berry, 49	Pasadena
Chadwick, Esther Lucille, Sp.	Selma
Christensen, Rozella V., 81	Selma
Christian, Edna Gladys, 18	Blythe
Christy, Mary Louise, Sp.	Phoenix, Ariz.
Chrystal, Jessie Leigh, Sp.	Redlands
Clark, Mary Eleanor, 65	San Diego
Clark, Perry Joseph, 15	Big Creek
Cleghorn, Pearl Lamer, Sp.	Highland

Clock, Charles Joseph, 74	Redlands
Clock, Ruth Irene, 10	Redlands
Coburn, Kathryn R., 19	National City
Coburn, Ruth Brunette, 79	National City
Cole, Lois Webster, 82	Pasadena
Collins, Nellie Elaine, 54	Coalinga
Cook, Clyde, 109	Redlands
Coon, Helen, 17	Los Angeles
Cooper, Sydney Benjamin, 116	Santa Barbara
Cornwell, Charles Kenneth, 7	Redlands
Cortner, Catherine Lucille, Sp.	Redlands
Cortner, Edith Irene, Sp.	Redlands
Cox, Vivian Adelia, 50	San Marcus
Cozard, William Bishop, 1	San Bernardino
Cram, Lewis Gordon, 17	Patton
Crandall, A. Elizabeth, 52	National City
Crandall, Stephen Adam, 19	National City
Crowe, Cecil Morgan, 114	Ojai
Crowe, Gladys Viola, 17	Ojai
Cruickshank, Ruth Marian, 48	Yucaipa
Cushing, Horace Samuel, 113	Redlands
Cutler, Eleanor Mae, 12	Pasadena
Daniels, Edith Alice, 18	Covina
Daniels, Margaret Arora, 15	Covina
Dannemann, Ida Elizabeth, 52	Orange
Davis, Sallie Belle, 48	Clarendon, Tex.
Davis, Vera, 17	San Diego
Deming, Alyce Amy (2)	Monrovia
Deming, Beatrice Angeline, 51	Monrovia
Doty, Harold Ethelbert, 33	Redlands
Downer, Lewis Eastman, 64	San Jose
Drew, Hester Evalyn, 14	Wilder, Idaho
Earley, Joseph Miles, 4	Redlands
Edwards, Catherine Ann, 42	Pasadena
Ellis, Ruth Hazeltine, 111	Long Beach
Ericsson, Carl G., 42	Kingsburg

Espy, Craig, 43	Phoenix, Ariz.
Everest, Emma L., 30	Pittsburg, Pa.
Farquhar, Mildred Ethel, 83	Redlands
Fenton, Melville, 14	San Bernardino
Ferguson, Fay Eloise, 15	Bakersfield
Ferguson, Joseph Stanley	Redlands
Findlay, Belle Elizabeth, 17	Redlands
Floyd, Beatrice Connard, 50	Alhambra
Floyd, Florence Avanelle, 18	Alhambra
Ford, Fred Bennett, 61	Strathmore
Ford, Helen Melvina, 117	Ceres
Ford, Vance Martin, 17	Redlands
Fowler, Orland Jay, 17	Redlands
Frenzell, Verena Marie, Sp.	Redlands
Funk, Fanny Belle, 121	Phoenix, Ariz.
Gaines, John Strother, 48	Fellows
Gair, Milton Marshall, 113	Redlands
Ganter, Esther Minta, 37	South Pasadena
Garman, Robert Donald, 52	Los Angeles
Gibson, Alice Marie, Sp.	Redlands
Gibson, Verona Mason, 119	Redlands
Glass, Winnetta, 81	Corona
Gregory, Mary E., Sp.	Stamford, Mont.
Green, Dirk George, 18	Marceline, Mo.
Grinnell, Electa Ruth, 54	Redlands
Gromer, Harry Milton, 51	Wasco
Gross, Carolyn, 5	Braddock, Pa.
Groth, August L., Sp.	Los Angeles
Gustafson, C. Earl, 17	San Diego
Hadden, Eleanor B., 16	Huntington Park
Hamilton, Howard Benedict, Sp.	Redlands
Hammond, Wilbert John, 31	San Diego
Harlow, Grace Adelaide, Sp.	Loma Linda
Harmon, Louise, 17	Pasadena
Harnly, Willamene, 16	Upland
Harris, Melville Don, 49	Redlands

Harrison, George Douglas, 3	Long Beach
Hasty, Charles G., 49	San Diego
Hatch, Doris Elizabeth, 15	Bakersfield
Hays, William Eugene, 17	Santa Ana
Hedstrom, Grace Florence, 51	Anaheim
Heineman, Frieda Catherine, 48	Anaheim
Hendrickson, Charlotte Cecelia, Sp.	Milestone, Canada
Heron, Lola Myrtle, 36	Redlands
Hillman, Eugenia Sabra, (2)	Hollywood
Hockenberry, Nellie, 17	South Pasadena
Hockridge, Catherine Elizabeth, 78	Redlands
Hoffpauir, Eris Iandra, 14	Yucaipa
Holdredge, William D., 42	Los Angeles
Holmes, Stanley Gordon, 69	Oakland
Hooper, Stephen Glenn, 42	Hollywood
Hopper, Lloyd Edwin, 48	Riverside
Hotchkiss, Evelyn Dorothea, 17	Hollywood
Huffman, Lee Archie, 6	Highland
Hutchins, Elizabeth Alida, 15	Long Beach
Hyde, James Erle, 13	Long Beach
Hyde, Kenneth John, (2)	Long Beach
Irwin, Helen Gale, 17	Pasadena
Jensen, Alfred A., 15	Jamul
Jensen, Thorwald Christopher, 12	Selma
Johnson, Delmar Gilten, 17	Kingsburg
Johnston, Margaret Louisa, Sp.	Redlands
Jones, Paul E., 12	La Mesa
Jones, Virginia May, 46	Sierra Madre
Karpe, Mamie Ruby, 54	East Bakersfield
Kay, Florence Ethel, 17	Phoenix, Ariz.
Kay, Nettie Barnett, 13	Phoenix, Ariz.
Kay, Ruth Elizabeth, 81	Phoenix, Ariz.
Kelsey, Genevieve Ione	Stacey, Mont.
Kelsey, Inez Narcissus, 18	Moorhead, Mont.
Kennard, Ada Marie, 114	Redlands
Kline, William H., Sp.	Redlands

REGISTER OF STUDENTS

Knapp, Margaret Lees, 86	Rockford, Ill.
Knights, Kenneth Schuler, 53	Long Beach
Knox, Irene, 125	Redlands
Knox, Lloyd B., 48	Redlands
Knox, Margaret Baron, 29	Ontario
Kubias, Joseph H., Sp.	Redlands
Kubias, Rudolph Moulton, 60	Redlands
La Bar, Eva Gina, 120	Porterville
La Fontaine, Merrill,	Holtville
La Fontaine, Ruth Carolyn, 17	Los Angeles
Lambert, Marion Louise, 50	Redlands
Larsen, Ernest Robert, 70	Selma
Lautz, Victor Charles, 23	San Bernardino
Leaverton, Hester Rosella, Sp.	Redlands
Lee, Bernard Augustus, 16	Eagle Rock
Lee, Harry B., 18	Santa Monica
Lee, Irene Elizabeth, 17	Pasadena
Leech, Mrs. W. D., Sp.	Loma Linda
Leitner, Bessie Mae, 48	Miles City, Mont.
Leitner, Sarah Helen, 17	Moorehead, Mont.
Leonard, J. Rollin, 36	Pawnee City, Neb.
Levering, Gird Lee, 22	Redlands
Lindblom, Theresa Maria, 52	Redlands
Lodbell, Kenneth LeRoy, 10	Redlands
Long, Violet Lenora, 51	Redlands
Loper, Ted Lester, 47	Redlands
Lovegren, Effie Maria, 110	Cherry Grove, Oregon
Lyster, Azalea, F. R., 67	El Cajon
MacMillan, Stuart Barclay, 116	Pasadena
MacNeur, Alexander, 36	Oakland
Manning, Robt. Sedwick, 17	Azusa
Marburger, Helen Harriet, 51	Anaheim
Markham, Florence K. , 16	National City
Marsh, Doris Gertrude, Sp.	Redlands
Martins, Samuel Marion, 18	San Bernardino
May, Arthur John, 45	Orosi

McClarren, Martha Helena, 17	Colton
McDaniel, Kirk, 9	Kansas City, Mo.
McDaniel, Opal Manda, 8	Redlands
McLendon, Mary Stone, Sp.	Redlands
McMinn, Emmagene, 16	Blythe
McPhee, Douglas Gordon, 107	Santa Paula
McPhee, Roxana Dorothea, 12	Santa Paula
McPherson, Dorothy Anne, 14	Glendale
Meilette, Louis John, 24	San Francisco
Melton, Emma Grace, 17	Redlands
Melton, Inez Ruth, 5	Redlands
Merrill, Olive Josephine, 39	Redlands
Mitchell,, Ethel Fern,	Salt Lake City, Utah
Mitchell, Margaret Anita, 51	Redlands
Mitchell, Pauline Gertrude, 18	San Pedro
Moffitt, Dorothy Ellen, 24	Willits
Moody, Elaine Helen, 19	San Diego
Moody, Harold Anderson, 18	San Diego
Moore, Helen Marylyn, 18	Ogden, Utah
Morrell, Lyman Hadley, 10	Redondo Beach
Morris, Opal Elvira, 45	Pima, Arizona
Morrow, Dorothy Ada, 20	Highland
Mueller, Mary Frances, Sp.	Redlands
Mullendore, William Earle, 59	Franklin, Ind.
Munszter, Iona Ella, Sp.	Fontana
Myzelle, Minnie Annette, Sp.	San Bernardino
Nelson, Berthold C., 51	Keyes
Nelson, Friedolph E., 46	Keyes
Newcomb, Charles Shelton, 5	San Bernardino
Newcomer, Lyle, 16	Colton
Newman, Ruby, 30	Long Beach
Netherton, Deidamia, 52	Redlands
Nicholson, Clarice, 81	Redlands
Nikolashin, George, (2)	Vladivostok, Russia
Nordhoff, Mary Whitall, Sp.	Redlnads
Ogden, Colin Robarts, 111	San Diego

Olsen Christian William, Sp.	Oakland
O'Neal, Kathryn Geneva, (2), 49	San Diego
Page, Edward Broughton, 19	Redlands
Page, Walter Albert, 15	Redlands
Parker, Lester R., 6	Redlands
Parker, Leta Estella, 15	Orange
Parsons, Frances Ethelwyn, 49	Pasadena
Patterson, Pauline Illoma, 17	San Bernardino
Peeler, Verna Eleanor (2)	Corona
Peeler, Viola Fanny, 76	Corona
Pemberton, Lorwin Clifford, 44	Long Beach
Penney, Richard Elmo, 14	White Plains, N. Y.
Pettibone, Eugene, 18	Oregon City, Ore.
Phillips, Ethel Mae, 10	San Bernardino
Pierce, Helen Luther, 17	Redlands
Pierson, Cylde, Sp.	San Bernardino
Pitts, Dorothy Sara, 49	Long Beach
Polliard, Florence Laura, 51	Redlands
Powell, Earle B., 18	Redlands
Powell, Walter Leslie, 43	Brawley
Price, Norman, 16	Pasadena
Pugh, Gwladys Jane, 113	Redlands
Rankin, Louis John, 16	Redlands
Rankin, Mabel Irene, 15	Redlands
Redding, Ray Gordon, 10	Long Beach
Reese, Charlotte Brown, 15	Santa Paula
Reeves, Zelda Fae, 74	Downey
Rettinhouse, Luella M., 15	Lindsay
Revis, Marvin A.	Redlands
Rennebohm, Edwin B.	Redlands
Reynolds, Raymond J., 111	Redlands
Rhodes, Myra Alice, 12	Cutler
Rice, Margurite LaVerne, Sp.	Redlands
Robbins, Gordon Hapgood, 27	Long Beach
Roberts, Howard Deacon, 16	Eagle Rock
Robinette, Marguerite, 51	Price, Utah

Robinson, Luella Pearl, 50	Arroya Grande
Rogers, Willis Edward, 11	San Bernardino
Ronzone, Margaret Theresa, 85	Redlands
Rose, Jack	Redlands
Rosesteel, Abbie Louise, 46	Los Angeles
Roth, Claude Leslie	Redlands
Rowe, George Morgan	Redlands
Rummonds, Newton Price, 7	Long Beach
Rumsey, Winifred, Sp.	San Bernardino
Sackett, Marna Genevieve, 41	Winters
Salisch, Lydia Anne, 76	Long Beach
Sanchez, Alfred Theodore, 18	Redlands
Sawyer, Mrs. M. G., Sp.	Redlands
Schmidt, Dorothy Alma, 8	Redlands
Scott, Dorothy, 42	Redlands
Scott, Harold Hall, Sp.	Redlands
Seaton, Clara Frances, 18	Fresno
Sellards, David F., 11	Carlsbad, N. Y.
Shafer, Mildred Julia, 42	Pomona
Sharp, Winifred Lillian, 30	Colton
Shedd, Faith May, Sp.	East Providence, R. I.
Shell, A. Harold, 16	Colton
Shipley, Guy, 3	Fort Defiance, Ariz.
Shower, Ervena, 18	Monrovia
Shropshire, Phy Edna, 16	San Bernardino
Simpson, Ralph Merrill, 43	Redlands
Skevington, Florence Morrill, 125	Hollywood
Skinner, Stanbridge Doris, 83	Redlands
Small, Delight Grace, 17	Bakersfield
Smith, Chas. Davenport, 70	Redlands
Smith, Dwight O., 118	Long Beach
Smith, Gladys Adell, (2)	Los Angeles
Smith, Hazel A., 88	So. Pasadena
Smith, Helen Dean, 17	San Bernardino
Smith, Jesse Lewis, 81	Oxnard
Snell, Gladys Erma, 17	Hollywood

Snider, Jennie Frances, 49	Colton
Snowball, Helen Joy, 51	Pasadena
Sokolof, Nicholas (2)	Harbin, China
Spear, Elizabeth Frances	Los Angeles
Springston, Christine, 118	Los Angeles
Spurlin, Ruth, 87	Redlands
Stack, Thos. Walter	Redlands
Stahl, Wm. Morris, 29	Trenton, N. J.
Stancer, Walter Paul, 2	San Bernardino
Stannard, Marjorie, 80	Redlands
Stannard, Raymond Edward, 79	Redlands
Stewart, Cecil Claire, 114	Corona
Stokely, Berlyn Henry, Sp.	Simi
Stokely, Leonard David, Sp.	Simi
Stokes, Wilma Christena	Redlands
Stower, Iola May, 80	Beaumont
Strang, Ted Alfred, 49	Redlands
Stuart, Francis Eugene, 105	Exeter
Sweeney, Katheryn E., 50	Redlands
Swope, Jessie Margaret, Sp.	San Bernardino
Taylor, Kemper, 51	Santa Ana
Taylor, William, 82	Santa Ana
te Groen, Dick, 87	Long Beach
Thomas, Caroline Hull, 16	Colton
Thomas, L. Gordon, 18	Pasadena
Thomas, Marie Alling, 16	Pasadena
Thomason, Julia Ruth, 84	Hollywood
Thomerson, Rita, 15	Redlands
Thompson, Robert D., 53	Eugene, Ore.
Tillery, Jack, 18	Beaumont
Tilton, Horace Scott, 39	Redlands
Tindall, Helen Viola, 14	Loma Linda
Titchener, Gladys Mabel, 13	Banning
Toeppler, Mrs. Edward, Sp.	Highland
Torrence, Katherine Lucille, 14	Redlands
Tolleson, Elma Crutchfield, 116	Phoenix, Ariz.

Tolleson, Walter Gist, 108	Phoenix, Ariz.
Towner, Chas. Benjamin, 47	San Jose
Troyer, Jot Vance, 49	Hollywood
Troyer, William Carey, 107	Hollywood
Truesdail, Lois Fern, Sp.	Redlands
Tuggy, Harold Ferguson, 53	Riverside
Upp, Dorothy Jeanette, 33	Willits
Van Guysling, Elizabeth Annette, 53	Huntington Park
Van Loan, Vera Esther, 5	Redlands
Vaughan, Margaret Leichen, Sp.	Redlands
Walton, Mildred, 44	Redlands
Wardrip, Buford Haven, 18	Holtville
Waring, Walker Stine, 32	Redlands
Wedberg, Fred J., 30	Redlands
Weld, Edwin Luverne, 9	Redlands
Weld, Max L., 60	Redlands
Welton, Frances Elizabeth, Sp.	Redlands
Wessels, Florence Gelette, 47	Hollywood
Wheat, Marjorie Elizabeth, 80	Redlands
White, Ethel Grace, 31	Banning
Widney, Vincent Converse, 124	Pasadena
Wight, Fred H., 84	Riverside
Williams, Dorothy Daisy, 41	Porterville
Williams, George L., 112	La Mesa
Williamson, Sarah Abbey, 19	Redlands
Willis, Caroline, 30	Redlands
Wisdom, Alta Margaret, 49	Oceanside
Wolfe, Marguerite, 16	Alamogordo, N. M.
Woodworth, Esther Elizabeth, 81	Redlands
Wright, Hortense Marian, 109	Hanford
Yochem, Harry Arthur, 18	Redlands
Yoder, Joyce Mary, 32	Redlands
Yokoi, Jutaro, 51	San Diego
Yount, Lloyd David, 68	Redlands
Zediker, Everest Pearce, 60	Pasadena
Total	381

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